

**PARTS LIST**  
**LISTE PIECES DETACHEES**  
**ERSATZTEILLISTE**  
**LISTA PARTI DI RICAMBIO**  
**LISTA DE PIEZAS DE REPUESTO**

**THOMSON**  
**21HT195**  
**Chassis ITC008**

### MODULES

MAIN	IC008F56T01SDJO	21459580
CRT	CRTI00840	21285050
DVD	DVD MODULE DMM05A-2 EUDVD	56035210
FAV	FAV USB TV/TVD008	21446770
IFAC	POWER INTERFACE I00802	21487910
KDB	KDBI00805	21455780
SCI	SCI00814	21409460



FZP60,61	MP315	△ 10575090
FZP66,93	MP50	△ 10457120
FZP200,201	TE5-T NO 396 3.15A 125V	△ 21210090
FZP202	TE5-T NO 19396 2.5A 125V	△ 21210080
FZP205,206,207	TE5-T NO 396 1.0A 125V	△ 21210050
FZP20,FZP01	TE5-T NO 396 500MA 125V	△ 21210040
GK001	TFM55330B	20627780
IB001	TDA6107JF/N3	10804130
IF001	STV8172A	56012920
IP001	TLP621 GR(D4-LF2 T)	20827900
IP030	STV8130A+	10748720
IP031	MC7805/ACT	46007400
IP050,201,202,203	TL431ACL	10724920
IR001	CAT24WC08P	21133090
IS100	MSP3415G-PO-B8	10714120
IS200	TDA7263	10281150
IV001	TDA9554PS/N3/3 SOFT ED1 VERS. S9.00	35989320
IX401	LA79500E FLAT	21160230
IX408	FSAV330M FLAT	21391640



TD900	MMBT3906LT1 SMD	20628200
TI030,045,TR003	DTC144EK SMD	16007030
TI050,TL050	BC856B SMD	16006310
TI060,070,TL031,062,TX001,004	BC846B SMD	16006260
TL032,TR005	BC337-40	45001466
TL035	S2055N	20578760
TL060	BCR191 SMD	16006910
TL061	RN1409 SMD	20688820
TP020	STP6NB90FP	25460310
TP022,052,206	BC548B	16000930
TP023,205,TX009	KTC8550D	21039270
TP025	BC558B	16001110
TP171,175,176,177,193,TS201,204,TX006,007,010	BC848B SMD	16006290
TP192	BC858B SMD	16006330
TP201,202,203,204	KTC2026Y	21141190
TR001	BCR185 SMD	16006900
TR002	BCR141 SMD	16006890
TS202,203	RN1402 (TE85L/R) SMD	10966200
TX008	RN2402 SMD	20205800
TZ01	S1423	△ 50888780


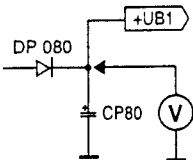



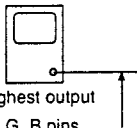
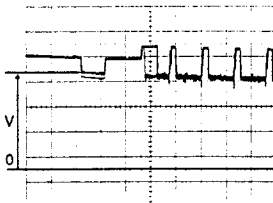


DB004	1N4004	44009009
DB030,031,050,051,070,071,DP037,097	BAV21	44044407
DD900,DX007,009,011,017	BZT55C5V1 SMD	15196090
DF001	BZW04-48	10351880
DF002,003,0H004,DK005,006,DL004,030,062,DP071,205,DV071,DZ05,JP212	1N4148	44009209
DF010,DL011,013,035,DP036	1N4001	16008160
DF101,102,DJ121,DL072,DS204,DV070,DX005,019,024,DZ01	LL4148 SMD	16012450
DH001	BZX55B33	80442730
DI030,040	BA782S SMD	20542050
DJ120,DK003,004,DR001	BZX55B5V6/ZPD5V6 2%	70438200
DL010,025,040,060,DP025,026,093	RGP10G	10459090
DL012	EGP10D	20953640
DP002,003,004,005	BYW27-1000	10455390
DP023,030	BZX55C8V2	11073660
DP027,040	BZX55C27	60447870
DP033	BZX55B15/ZPD15 2%	80444020
DP057,207	BZX55C9V1	90578100
DP061	SB560	20956430
DP063	BYW98-200 3.0A	15103710
DP080	STTH5L06	21285880
DP095,DZ03	ZPD10 2%	80444160
DP200,201,202	1N5822	44058204
DP203	RGP15G	10272800
DP206	BZX55C3V9	80444130
DU001,002,003,004	MMSZ6V8T1 SMD	15580490
DV002,003,004	MMSZ10T1 SMD	15580530
DX001	BZT52C13 SMD	15583750
DX002	BZT52C3V3 SMD	15583620
DX018	BZT52C5V6 SMD	15583660
DX020,021	MMSZ12T1 SMD	15580550
GK003	TLXR4400 LED	16011680








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VERSION 1 10 / 2005 36013360  
 VERSION 2 00 / 0000

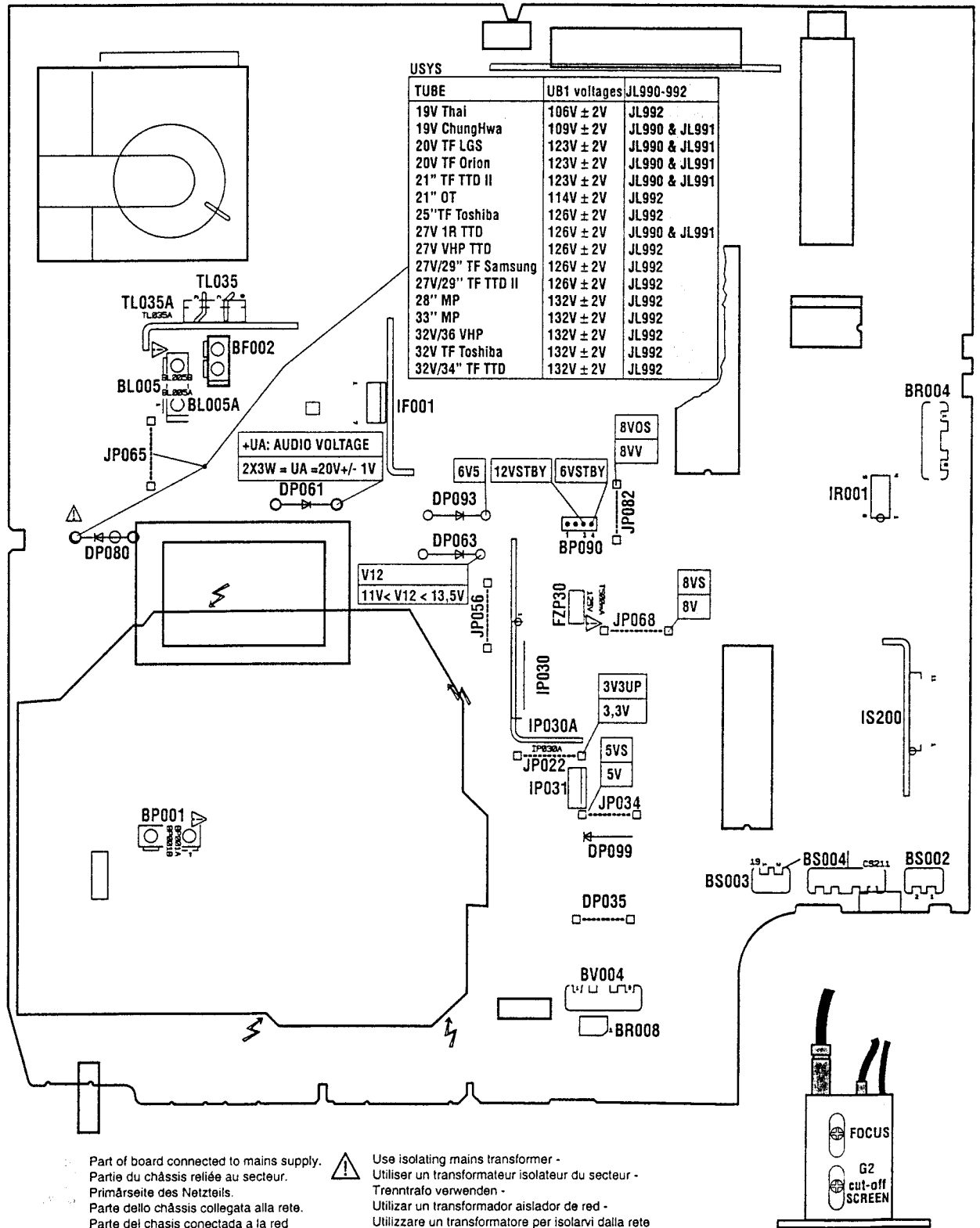
# ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

<div>MAIN</div> <div>SYSTEM VOLTAGE</div> <div>+UB1</div>		<div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>= 50%</div></div><div>TV to AV : Black test pattern</div><div>AV </div></div>		<table><tr><th>TUBE</th><th>UB1 voltages</th><th>JL990-992</th></tr><tr><td>19V Thal</td><td>106V ± 2V</td><td>JL992</td></tr><tr><td>19V ChungHwa</td><td>109V ± 2V</td><td>JL990 &amp; JL991</td></tr><tr><td>20V TF LGS</td><td>123V ± 2V</td><td>JL990 &amp; JL991</td></tr><tr><td>20V TF Orion</td><td>123V ± 2V</td><td>JL990 &amp; JL991</td></tr><tr><td>21" TF TTD II</td><td>123V ± 2V</td><td>JL990 &amp; JL991</td></tr><tr><td>21" OT</td><td>114V ± 2V</td><td>JL992</td></tr><tr><td>25" TF Toshiba</td><td>126V ± 2V</td><td>JL992</td></tr><tr><td>27V 1R TTD</td><td>126V ± 2V</td><td>JL990 &amp; JL991</td></tr><tr><td>27V VHP TTD</td><td>126V ± 2V</td><td>JL992</td></tr><tr><td>27V/29" TF Samsung</td><td>126V ± 2V</td><td>JL992</td></tr><tr><td>27V/29" TF TTD II</td><td>126V ± 2V</td><td>JL992</td></tr><tr><td>28" MP</td><td>132V ± 2V</td><td>JL992</td></tr><tr><td>33" MP</td><td>132V ± 2V</td><td>JL992</td></tr><tr><td>32V/36 VHP</td><td>132V ± 2V</td><td>JL992</td></tr><tr><td>32V TF Toshiba</td><td>132V ± 2V</td><td>JL992</td></tr><tr><td>32V/34" TF TTD</td><td>132V ± 2V</td><td>JL992</td></tr></table>	TUBE	UB1 voltages	JL990-992	19V Thal	106V ± 2V	JL992	19V ChungHwa	109V ± 2V	JL990 & JL991	20V TF LGS	123V ± 2V	JL990 & JL991	20V TF Orion	123V ± 2V	JL990 & JL991	21" TF TTD II	123V ± 2V	JL990 & JL991	21" OT	114V ± 2V	JL992	25" TF Toshiba	126V ± 2V	JL992	27V 1R TTD	126V ± 2V	JL990 & JL991	27V VHP TTD	126V ± 2V	JL992	27V/29" TF Samsung	126V ± 2V	JL992	27V/29" TF TTD II	126V ± 2V	JL992	28" MP	132V ± 2V	JL992	33" MP	132V ± 2V	JL992	32V/36 VHP	132V ± 2V	JL992	32V TF Toshiba	132V ± 2V	JL992	32V/34" TF TTD	132V ± 2V	JL992
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<div>FOCUS</div>	LL05	<div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>= 50%</div></div><div> Test pattern (standard values)</div></div>		Sharp picture																																																			
<div>U G2 / CUTOFF</div> <div>METHOD 1</div> <div>Measurement</div>	LL05 SCREEN Focus Block	<div><div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div>= 50%</div></div><div>TV to AV : Black test pattern</div><div>AV </div></div>	<div><div>highest output R, G, B pins CRT socket</div></div>	<div><div>100:1 probe 2ms / div Y= 20V/div DC</div></div> <table><tr><th>Tube</th><th>V Cut-off</th></tr><tr><td>21" OT 90°</td><td>125V +/- 3V</td></tr><tr><td>21" XF-TTD</td><td>125V +/- 3V</td></tr><tr><td>21" XF Toshiba</td><td>125V +/- 3V</td></tr><tr><td>28" MP</td><td>125V +/- 3V</td></tr><tr><td>29" TF Samsung</td><td>125V +/- 3V</td></tr><tr><td>29" XF TTD II</td><td>125V +/- 3V</td></tr><tr><td>33" MP</td><td>125V +/- 3V</td></tr><tr><td>34" XF TTD</td><td>125V +/- 3V</td></tr></table>	Tube	V Cut-off	21" OT 90°	125V +/- 3V	21" XF-TTD	125V +/- 3V	21" XF Toshiba	125V +/- 3V	28" MP	125V +/- 3V	29" TF Samsung	125V +/- 3V	29" XF TTD II	125V +/- 3V	33" MP	125V +/- 3V	34" XF TTD	125V +/- 3V																																	
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<div>U G2 / CUTOFF</div> <div>METHOD 2</div> <div>SERVICE MODE</div> <div>(According to software version).</div>	SERVICE MODE	<div>Alternative method : see Service Mode p. 9</div> <div>Autre méthode : voir réglage dans le service mode p. 9</div> <div>Siehe Service Mode S. 9</div> <div>Metodo alternativo : vedi Service Mode p.9</div> <div>Método alternativo : ver Modo Servicio pág. 9</div>																																																					

## EAST-WEST MODULE - MODULE EST-OUEST - OST-WEST-MODUL - MODULO EST-OVEST - MODULO ESTE-OESTE

GEOMETRY	TV : AV1    Test pattern Standard TV - Settings :  +  +  = 50%		Correct picture
<div>EWM</div>	PL140	<div>GB</div> - Please refer to geometry Mode alignment ( 110° tube ) , page 10, to adjust the East West Module (EWM)	
	PL141		
	PL143	<div>F</div> - Se référer à la méthode d'alignement des géométries ( tubes 110° ), page 10 pour effectuer les réglages du Module Est-Ouest (EWM).	
	SERVICE MODE		
		<div>D</div> - Abgleich des Ost-West-Modules: Siehe Geometrie-Abgleich (110°), Seite 10.	
		<div>I</div> - Per le regolazioni del Modulo Est-Ovest fare riferimento al modo allineamento geometria (tubi 110°), pagina 10.	
		<div>E</div> - Para los ajustes del módulo Este-Oeste (EWM) ver la página 10, modo ajuste geometría (tubo 110°)	
	<div>PL140</div> 	<div>PL141</div> 	<div>PL143</div> 

**LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - LAGEPLAN  
EINSTELLER - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES**

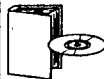


A51QDJ420X03 CATHODE RAY TUBE A51QDJ420X03 TUBE CATHODIQUE A51QDJ420X03 FARBBILDROEHRE A51QDJ420X03 TUBO CATODICO A51QDJ420X03 T.R.C	△ 56038460
DEGAUSSING COIL 445MM BOBINE DE DEMAGNETISATION 445MM ENTMAGNETISIERUNGSSPULE 445MM BOBINA DI SMAGNETIZZAZIONE 445MM BOBINA DE DESMANTACION 445MM	△ 10738830
POWER SUPPLY LEAD CORDON D'ALIMENTATION NETZKABEL CAVO DI ALIMENTAZIONE CABLE DE ALIMENTACION	△ 10260880
8R0 OHM 10W LOUSPEAKER 42X105MM 8R0 OHM 10W HAUT PARLEUR 42X105MM 8R0 OHM 10W LAUTSPRECHER 42X105MM 8R0 OHM 10W ALTOPARLANTE 42X105MM 8R0 OHM 10W ALTAVOZ 42X105MM	25737950
RC311TAIG REMOTE CONTROL RC311TAIG TELECOMMANDE RC311TAIG FERNBEDIENUNG RC311TAIG TELECOMANDO RC311TAIG TELEMANDO	21282880
CORD STOPPER ATTACHE CORDON SECTEUR ZUGENTLASTUNG BRIDA CORDONE DI ALIMENTAZIONE SUJECION CABLE DE ALIMENTACION	25307670
SPACER FRONT PANEL ENTRETOISE FACADE Distanzscheibe Frontplatte DISTANZIATORE PANNELLO FRONTALE ESPACIADOR PANEL FRONTAL	25587590
COVER TRAY CD CH11TH CACHE TIROIR CD ABDECKUNG SCHUBLADE CD COPERCHIO CASSETTO CD CUBIERTA CORREDERA CD	25828130
LOUDSPEAKER GRID LEFT/RIGHT BK20TH GRILLE HAUT PARLEUR GAUCHE/DROIT BK20TH LAUTSPRECHERGITTER LINKS/RECHTS BK20TH GRIGLIA ALTOPARLANTE SINISTRA/DESTRA BK20TH REJILLA ALTAVOZ IZQUIERDA/DERECHA BK20TH	25828160
REAR PANEL AL01TH DOS AL01TH RUECKWAND AL01TH PANNELLO POSTERIORE AL01TH TAPA POSTERIOR AL01TH	△ 35949340
BUTTON STRIP TV CH11TH BARRETTE DE TOUCHES TV CH11TH TASTENLEISTE TV CH11TH PIATTINA TASTI TV CH11TH PLACA DE TECLAS TV CH11TH	25828190
LED WINDOW GLACE LED LED FENSTER VETRO LED CRISTAL LED	25793110
INFRARED WINDOW GLACE INFRAROUGE INFRAROT FENSTER VETRO INFRAROSSO CRISTAL INFRARROJO	25793120
FCB SUPPORT AL01TH SUPPORT FCB AL01TH FCB HALTER AL01TH SUPPORTO FCB AL01TH SOPORTE FCB AL01TH	35949310

ON/OFF SWITCH SUPPORT 25793080  
SUPPORT CONTACTEUR MARCHE/ARRET  
HALTER EIN-AUS SCHALTER  
SUPPORTO CONTATTORE ACCESO/SPENTO  
SOPORTE CONTACTOR MARCHA/PARADA

## MAINTENANCE TOOLS MAINTENANCE WERKZEUG FUER DAS GERAET UTENSILI DI MANUTENZIONE MANTENIMIENTO

ITC008 POWER SUPPLY REPAIR KIT 35711620  
ITC008 KIT MAINTENANCE ALIMENTATION  
ITC008 REPARATURSET NETZTEIL  
ITC008 KIT PER RIPARARE ALIMENTAZIONE  
ITC008 KIT DE REPARACION ALIMENTACION



15HT195/21HT195 UM THOMSON 60179990  
15HT195/21HT195 NU THOMSON  
15HT195/21HT195 BA THOMSON  
15HT195/21HT195 IU THOMSON  
15HT195/21HT195 IU THOMSON

CDROM ITC008 35765170  
CDROM ITC008  
CDROM ITC008  
CDROM ITC008  
CDROM ITC008

ITC008 SERVICE MANUAL 35696810  
ITC008 DOC TECHNIQUE  
ITC008 TECHNISCHE DOKUMENTATION  
ITC008 DOCUMENTAZIONE TECNICA  
ITC008 DOCUMENTACION TECNICA

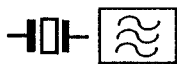
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ITC008 DOC TECHNIQUE VERSION 2  
ITC008 TECHNISCHE DOKUMENTATION VERSION 2  
ITC008 DOCUMENTAZIONE TECNICA VERSION 2  
ITC008 DOCUMENTACION VERSION 2

21HT195 PARTS LIST 36013360  
21HT195 LISTE DE PIECES DETACHEES  
21HT195 ERSATZTEILLISTE  
21HT195 LISTA PARTI DI RICAMBIO  
21HT195 LISTE DE PIEZAS DE REPUESTO

### 21HT195

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FI010	0FWK6257K FOS	10545030
FI020	K9659D 33M9HZ FOS	21132460
FI030	40M4HZ	10664720
FI050	5M74HZ	20338170
QS101	18M432HZ	21414780
QV001	12M0HZ	25418130



LH010, LI032, LL040, LS103, LV001.004	10UH	15039640
LI031	6,8UH 5%	13052120



RB001.004, RL026	1K5 OHM 5% 0,50W	10121880
RB013	10R0 OHM 10% 0,50W	15000160
RB031.051.071	560R0 OHM 10% 0,50W	10257590
RF004.006	1K5 OHM 1% 0,25W	80437630
RF007	1R21 OHM 1% 0,70W	13010820
RF008	1R5 OHM 5% 0,25W	△ 13063950
RL010	0R1 OHM 10% 0,40W	△ 15022510
RL012	0R22 OHM 5% 0,50W	△ 10305450
RL040	47R0 OHM 5% 0,35W	△ 20923340
RP001	4R7 OHM 5% 10W	11063840
RP002	18R0 OHM 230V PTC	△ 10509980
RP009	470K0 OHM 5% 1W	△ 21185660
RP015	10M0 OHM 5% 1W	△ 21090250
RP020	0R68 OHM 5% 2,5W	20822410
RP056	130K0 OHM 1% 0,25W	15514320
RP210	47R0 OHM 5% 3W	90572360
RP281	1R0 OHM 1% 0,25W	15015430
RS103	3R9 OHM 5% 0,25W	15009970
RS216.219	4R7 OHM 5% 0,35W	△ 10226310
RV001	15K0 OHM 5% 0,10W	10135050
RZ05	29K4 OHM 1% 0,25W	60442370
RZ07	27K4 OHM 1% 0,25W	80437740



CB001	10N0F 3K0V	14036450
CB003.006, CL041	10UF 20% 250V	13039480
CB004	47N0F 5% 250V	40433080
CF004	1N0F 10% 50V	10138550
CH008, CV002	100U0F 20% 25V	43269060
CI055, CV003	100P0F 10% 16V	20947390
CL010, 012, 026, 040, CP026, 068	330P0F 10% 1K0V	14030320
CL021	8N8F 3,5% 1K6V	△ 43416000
CL022	330P0F 10% 2K0V	20833150
CL023	270N0F 5% 250V	△ 21265580
CL060, CP097, CV072	4U7F 20% 100.0V 85C	13070930
CP001.002	100N0F 20% 275V	△ 10364920
CP004.005.006	1N5F 10% 1K0V	20338740
CP008	150U0F 20% 400V	13050060

CP009	2N2F 20% 1K6V	10571760
CP015	2N2F 20% 400V	△ 10660820
CP050	470P0F 5% 63V	15001790
CP063	680P0F 5% 63V	15001830
CP080	220U0F 20% 200V	10658570
CP088	2N2F 2K0V	14036020
CV001.004	220N0F 10% 10V	20947540
CV005	2N7F 10% 50V	10138630
CV006.008	1U0F 10% 6.3V	25491000
CV007	4.7Nf 10% 50V	10138710



LL005	FBT JF0501-19544	△ 21323130
LL026	58U0H	△ 21426470
LL032	DRIVER	20936440
LP002	60MH	△ 21315930
LP003	SMTEU-D160	△ 21261120

## OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS

BB005	CATHODE RAY TUBE SOCKET SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	△ 1506533A
BJ110	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	56029020
BK003	CINCH SOCKET 3 ASSY ENSEMBLE 3 PRISES CINCH CHINCH 3 BUCHSEN-EINHEIT ASSIEME 3 PRESA CINCH CONJUNTO 3 TOMA CINCH	21296150
BQ112	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	21117680
BR001	CABLE FLAT 8 PINS 400MM CABLE NAPPE 8 PINS 400MM KABEL FLACH 8 PINS 400MM CAVO FALDA 8 PINS 400MM CABLE 8 PINS 400MM	△ 2120041A
BS003	CONNECTOR CONNECTEUR STECKVERBINDUNG CONNETTORE CONECTOR	11095570
BS004	CONNECTOR CONNECTEUR STECKVERBINDUNG CONNETTORE CONECTOR	70438840
BU002	USB SOCKET PRISE USB USB-BUCHSE PRESA USB TOMA USB	56056520
BX010	SCART SOCKET (BLACK) PRISE PERITEL (NOIR) EURO-AV-BUCHSE (SCHWARZ) EUROPRESA NORMALIZZATA (NERA) EUROCONECTOR (NEGRA)	60068900

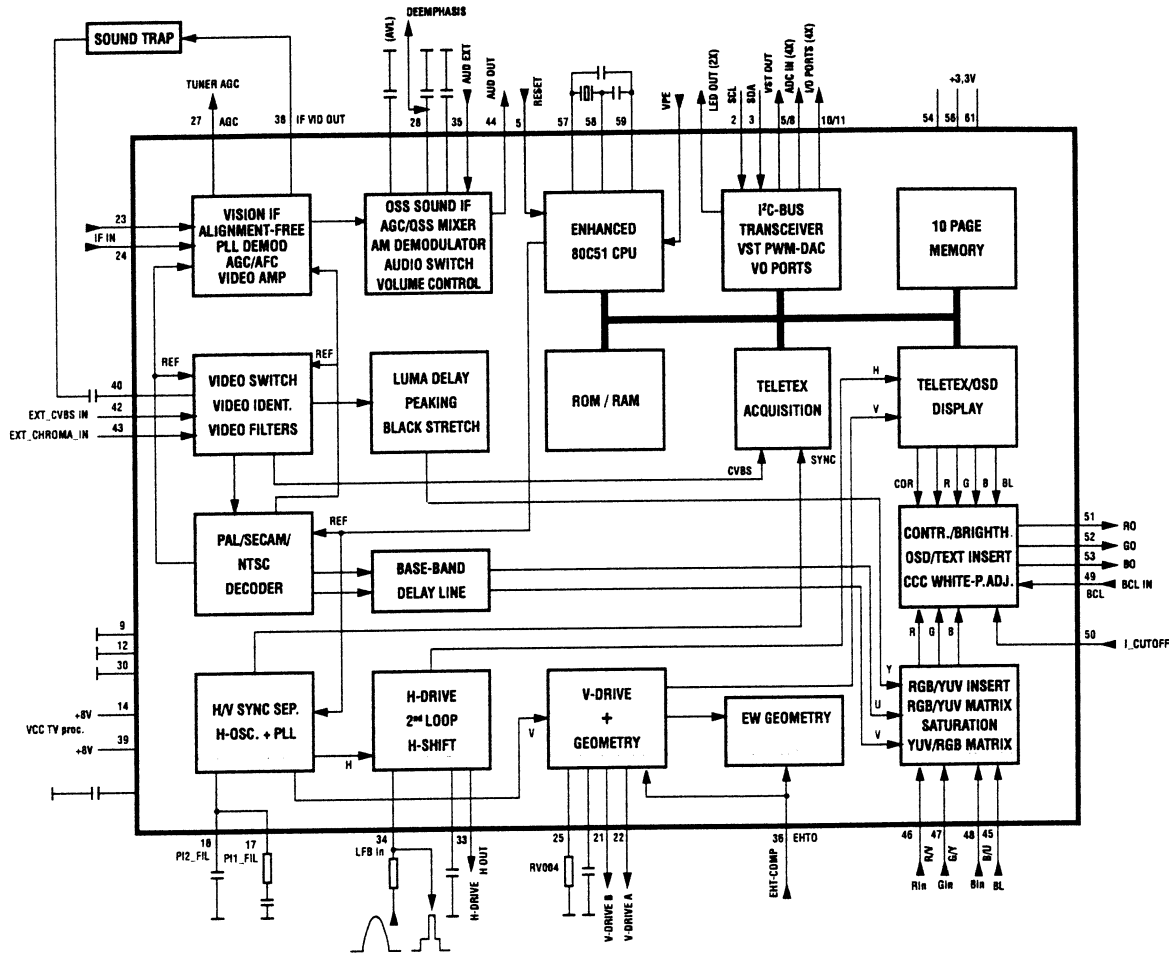
BX100	CONNECTOR 21 PINS CONNECTEUR 21 VOIES VERBINDEREL 21-POLIG CONNETTORE 21 SPINOTTI CONECTOR 21 PUNTOS	△ 21219710
CH200	ON/OFF SWITCH MSB2000 CONTACTEUR MARCHIE/ARRET MSB2000 EIN-AUS SCHALTER MSB2000 CONTATTORE ACCESO/ SPENTO MSB2000 CONTACTOR MARCHA/PARADA MSB2000	△ 10276500
CH201	CABLE WITH CONNECTOR 2 PINS 500MM CABLE AVEC CONNECTEUR 2 VOIES 500MM KABEL MIT VERBINDER 2 PINS 500MM CAVO CON CONNETTORE 2 SPINOTTI 500MM CABLE CON CONECTOR 2 PUNTOS 500MM	25419710
FP001	1A6T 250V TIME-LAG FUSE 1A6T 250V FUSIBLE TEMPORISE 1A6T 250V SICHERUNG 1A6T 250V FUSIBILE TEMPORIZZATO 1A6T 250V FUSIBLE TEMPORIZADO	△ 48064700
NH001	CTF5560 UHF/VHF TUNER CTF5560 TETE UHF/VHF CTF5560 UHF/VHF TUNER CTF5560 TUNER UHF/VHF CTF5560 SINTONIZADOR UHF/VHF	21383640
SK101, 102, 103, 104, 105, 106, 107, 108	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	25380930
SP001	RELAY 12V RELAIS 12V RELAIS 12V RELE 12V RELE 12V	△ 20620640

## EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION

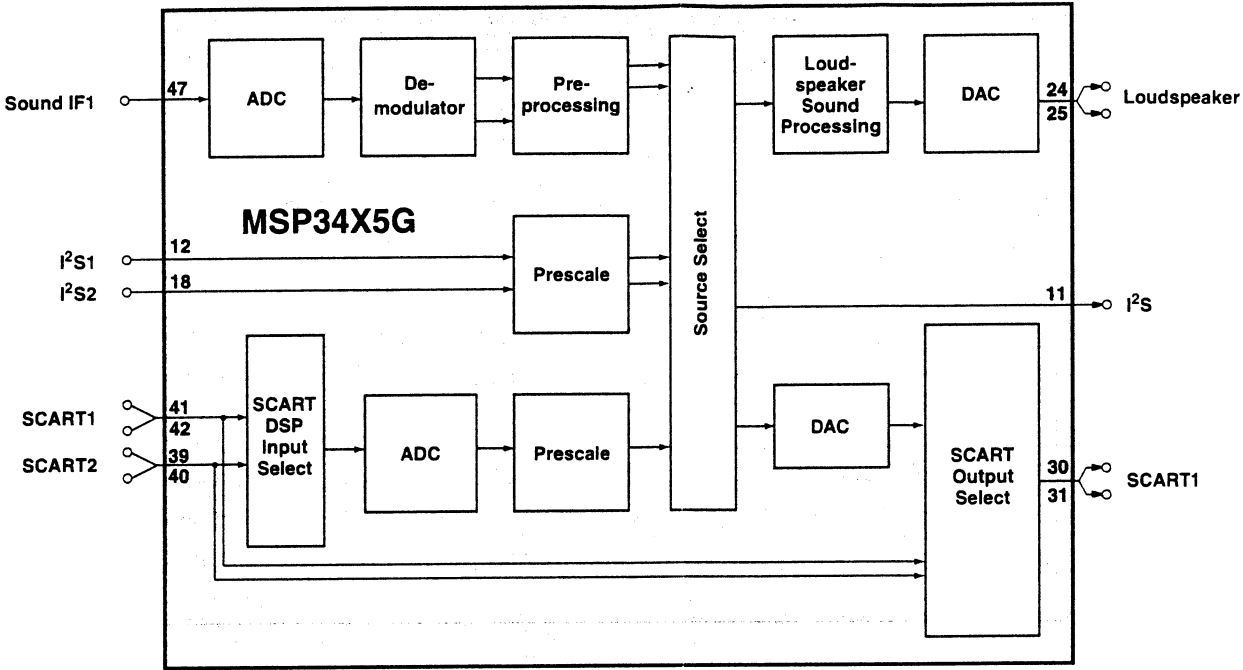
FITTING SET ENSEMBLE DE CALES POLSTER KIT ASSIEME DISTANZIATORE CONJUNTO CALZO	25820690
LOGO THOMSON CHROME LOGO THOMSON CHROME SCHRIFTZUG THOMSON CHROME MARCHIO THOMSON CHROME LOGOTIPO THOMSON CHROME	25657790
CARTON MIDDLE CARTON INTERMEDIAIRE KARTON MITTELTEIL CARTONE MEZZO CARTON MEDIO	25796600
FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON	25820710
FRONT PANEL BS04TH FACADE BS04TH FRONTPLATTE BS04TH PANNELLO FRONTALE BS04TH PANEL FRONTAL BS04TH	3598832A

INTEGRATED CIRCUITS BLOCK DIAGRAMS - SYNOPTIQUES INTERNES DES CIRCUITS INTEGRES - INTEGRIERTE SCHALTUNGEN BLOCKSCHALTBIlder -  
SCHEMA A BLOCCHI DEL CIRCUITI INTEGRATI - VISTA INTERNA DE LOS CIRCUITOS INTEGRADOS

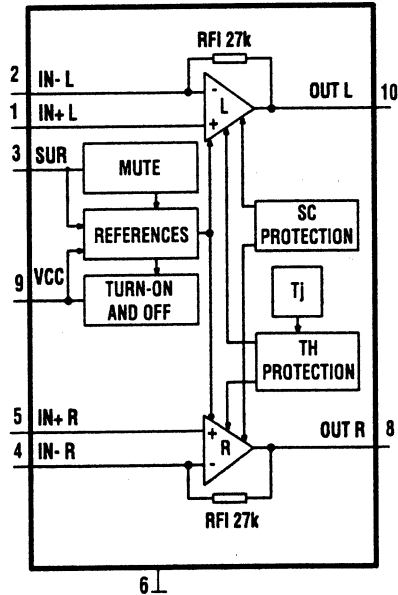
MICROPROCESSOR - TDA9554



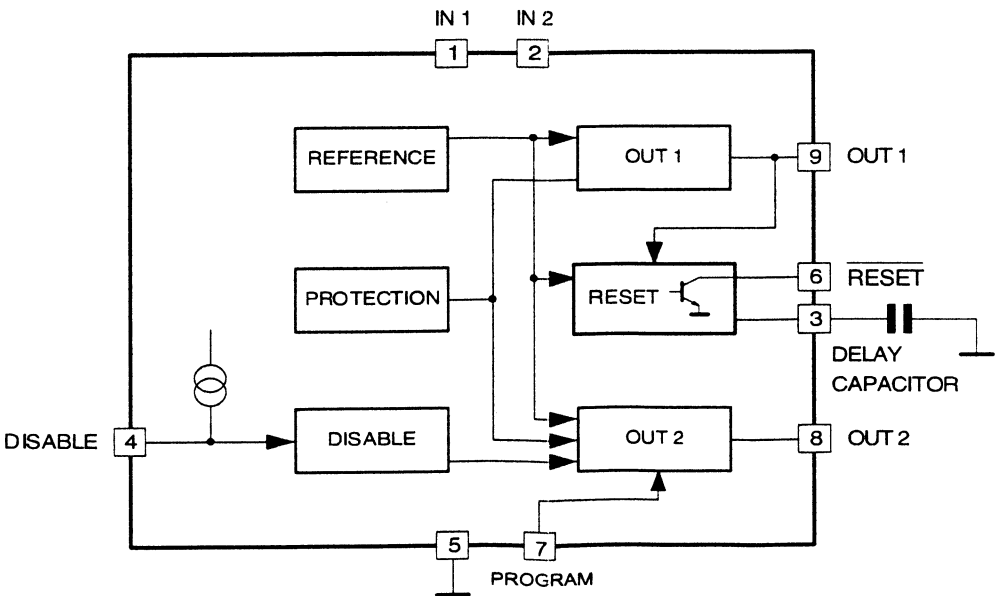
MSP3415G - SOUND PROCESSOR



AUDIO POWER AMPLIFIER - TDA7253 - TDA7263



STV8130 - 3.3V AND ADJUSTABLE VOLTAGE REGULATOR



LIST OF ABBREVIATIONS - LISTE DES ABREVIATIONS - ABKÜRZUNGEN  
LISTA DELLE ABBREVIAZIONI - LISTA DE ABREVIACIONES

● AUDIO MUTE	MUTE AUDIO AMPLIFIER
● BCL	BEAM CURRENT LIMITING INFORMATION
● B	BLUE SIGNAL TO VIDEO AMPLIFIER
● CVBS	COMPOSITE VIDEO BASE BAND SIGNAL
● DEGAUSS	DEGAUSS SIGNAL
● G	GREEN SIGNAL TO VIDEO AMPLIFIER
● HDRIVE	DRIVE SIGNAL FOR HORIZONTAL DEFLECTION
● HEATER	HEATER VOLTAGE
● I_CUT	CUT OFF CURRENT
● IR	DATA FROM INFRARED RECEIVER
● LFB	HORIZONTAL FLYBACK REFERENCE
● PO	POWER ON. SIGNAL FROM MICRO. TO POWER SUPPLY. SWITCHES THE POWER SUPPLY FROM STANDBY TO ON.
● R	RED SIGNAL TO VIDEO AMPLIFIER
● SCL	SERIAL CLOCK
● SDA	SERIAL DATA
● UA	POSITIVE AUDIO VOLTAGE
● UB1 / USYS	SYSTEM VOLTAGE
● U_SYS_MOD	SIGNAL TO MODULATE USYS
● UVIDEO	VIDEO VOLTAGE FOR THE CRT BOARD
● V_DRIVE	DRIVE SIGNAL FOR VERTICAL DEFLECTION
● +VSUPPLY	POSITIVE SUPPLY VOLTAGE FOR VERTICAL POWER AMPLIFIER
● -VSUPPLY	NEGATIVE SUPPLY VOLTAGE FOR VERTICAL POWER AMPLIFIER
● V12	SUPPLY VOLTAGE FROM POWER SUPPLY. USED FOR THE DRIVER CIRCUIT START UP
● +3V3UP	POSITIVE SUPPLY FOR GESTION PART IV001
● +33V	TUNER VOLTAGE



Television

Chassis

ITC008

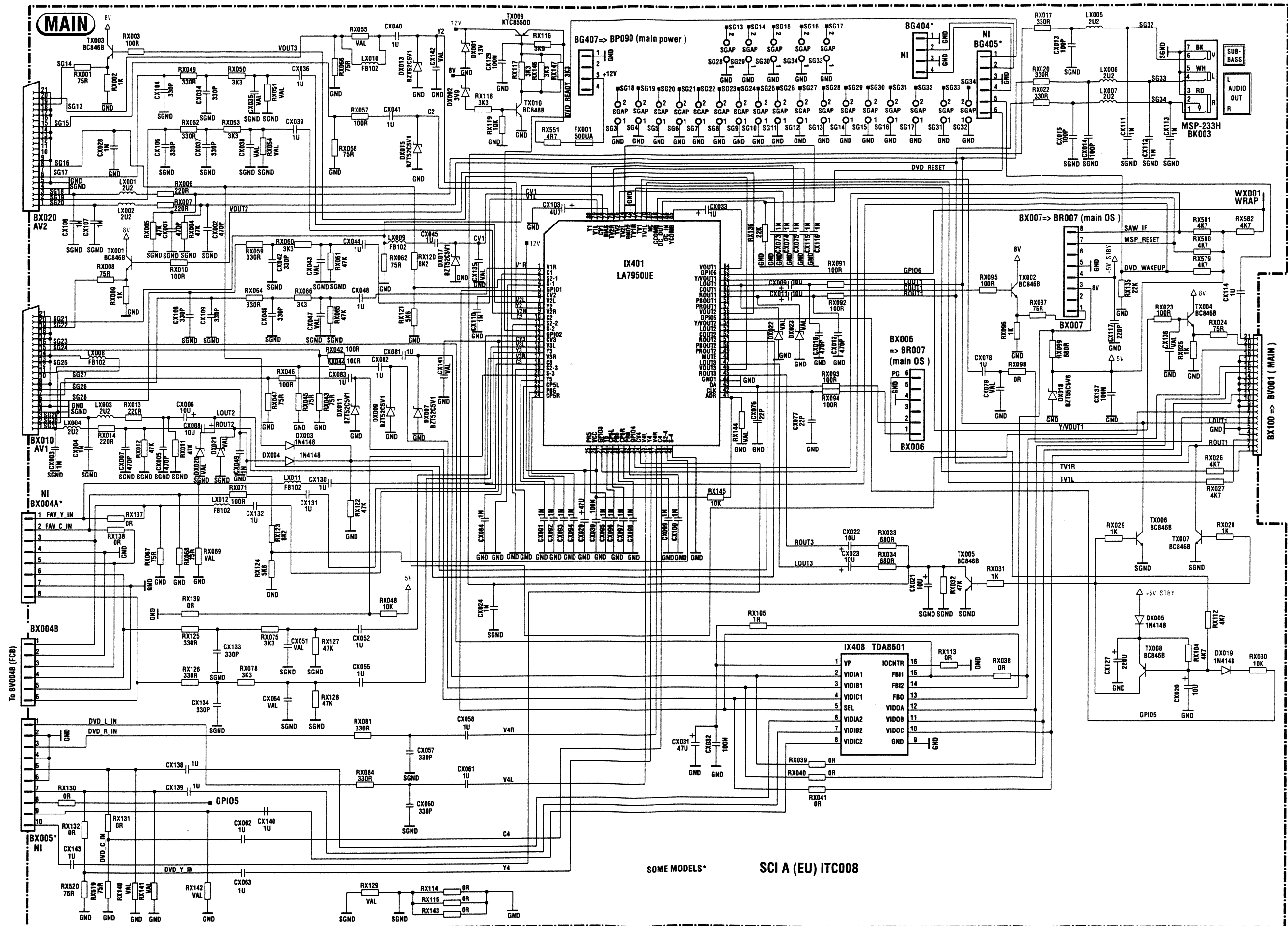


Data processing

Symptom description

The set switch OFF and switch ON again without reason.  
Colour flashing on the screen.

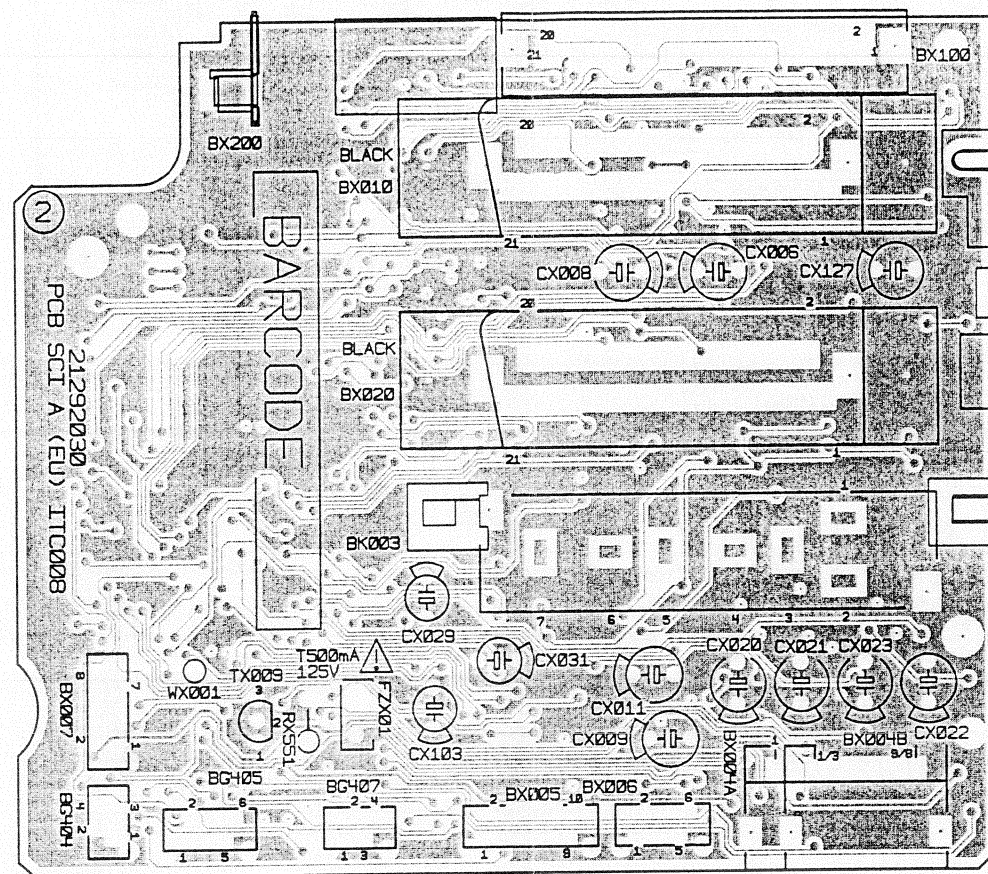
**SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE - PRESA PERITEL- EUROCONECTOR**



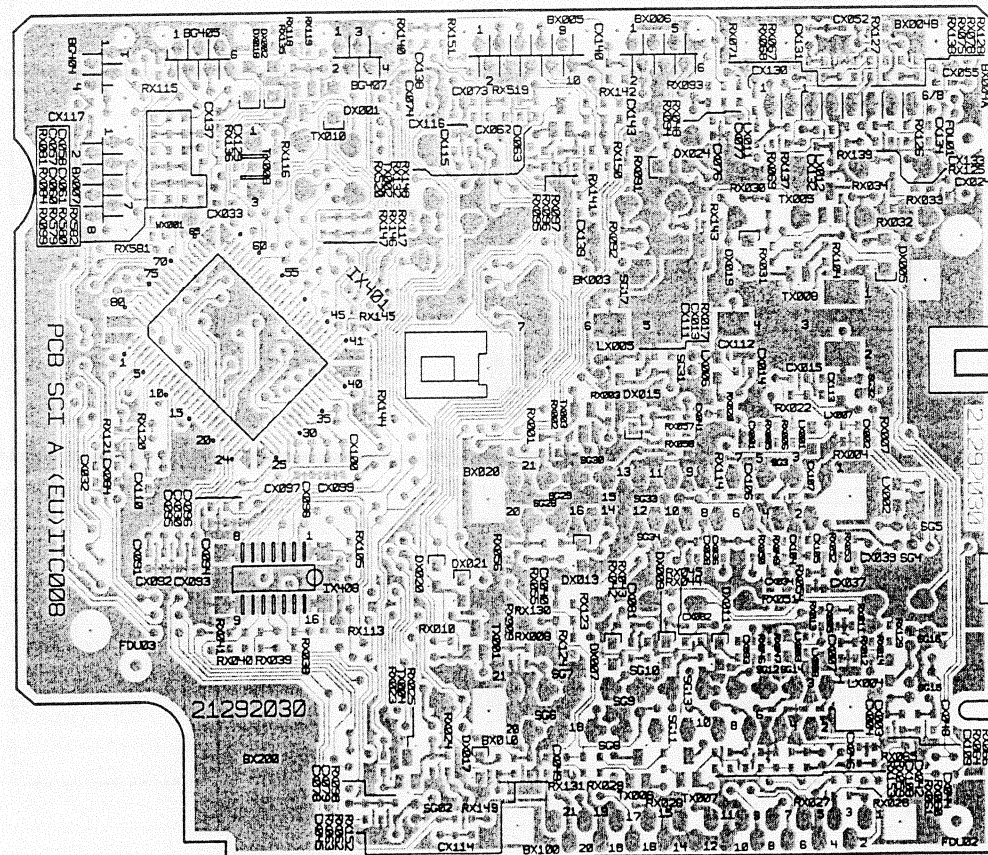


SCART INTERFACE - INTERFACE PERITELEVISION - SCART INTERFACE -  
PRESA PERITEL- EUROCONECTOR

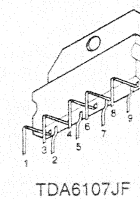
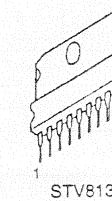
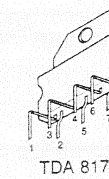
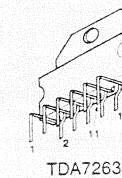
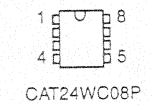
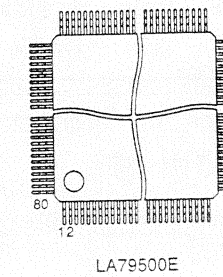
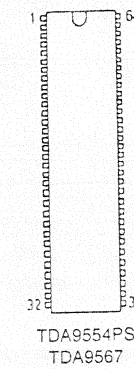
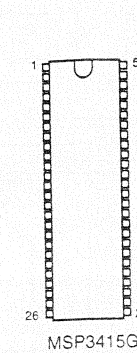
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -  
LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



INTEGRATED CIRCUITS AND TRANSISTORS OUTLINE - CIRCUITS INTEGRES ET TRANSISTORS  
 INTEGRIERTE SCHALTUNGEN UND TRANSISTOREN - CIRCUITI INTEGRATI TRANSISTOR  
 CIRCUITOS INTEGRADOS Y TRANSISTORES



BC846 B  
BC848B  
BC856 B  
BC858B  
BCR141  
BCR185  
BCR191  
DTC144EK  
RN1402  
RN2402  
RN1409  
RN2417



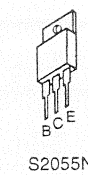
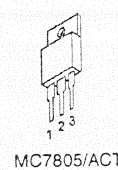
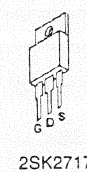
BC 337-40  
BC548B  
BC558B



KTC8550D  
S1423

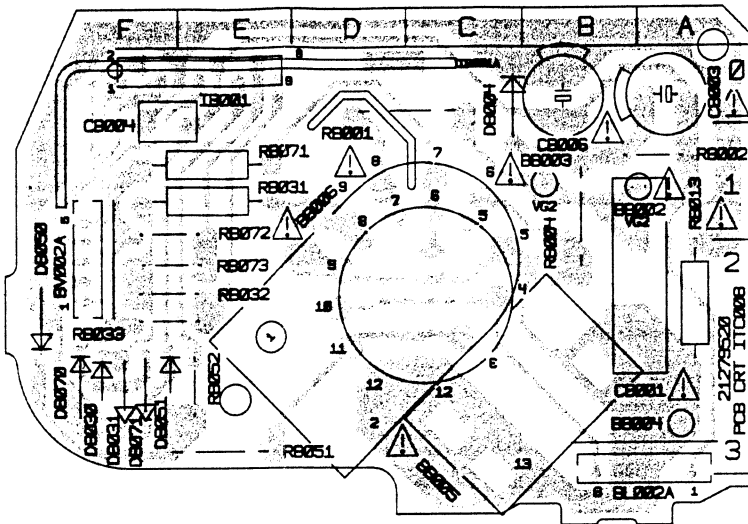
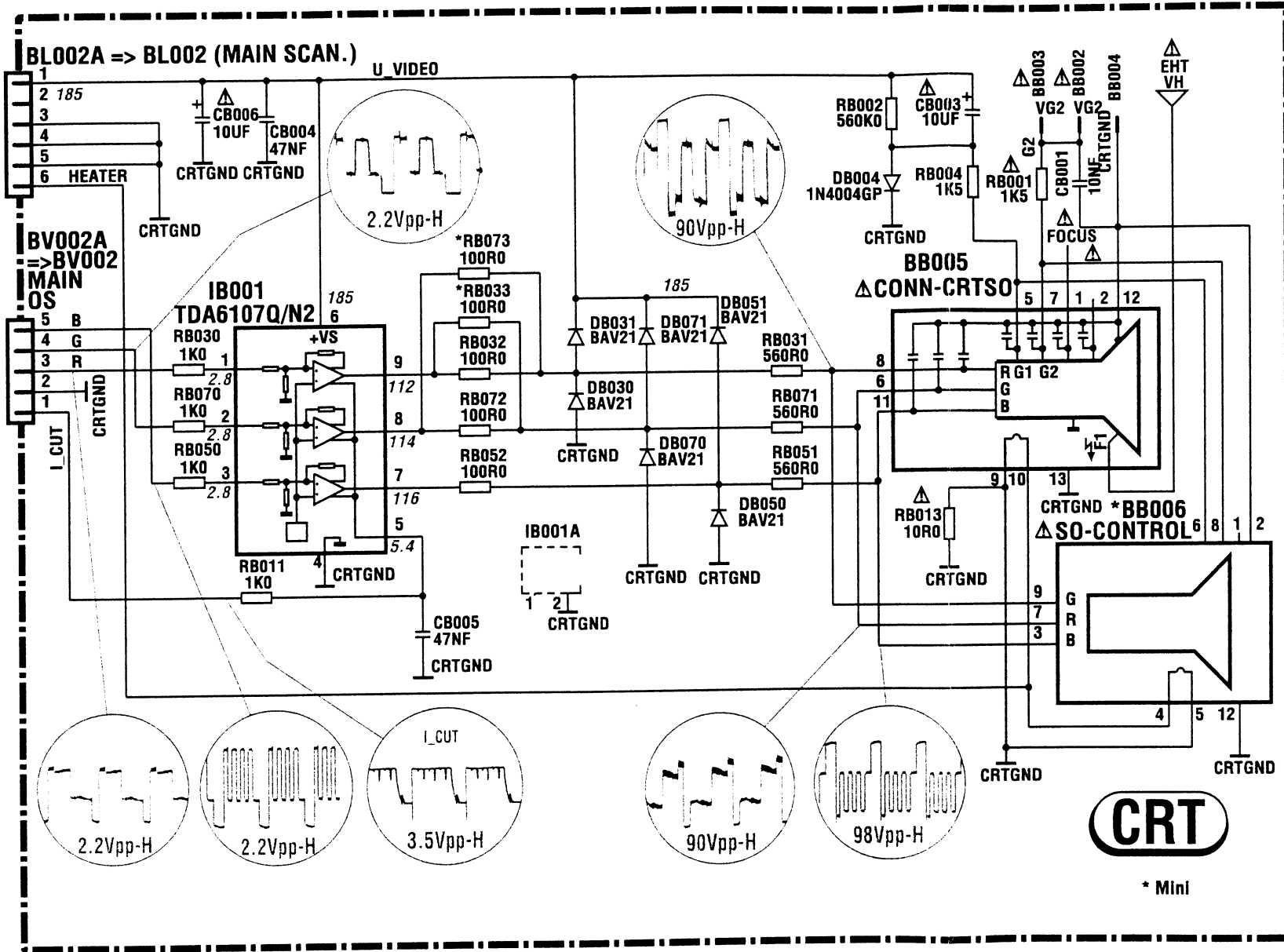


TL431  
1: REFERENCE  
2: ANODE  
3: CATHODE

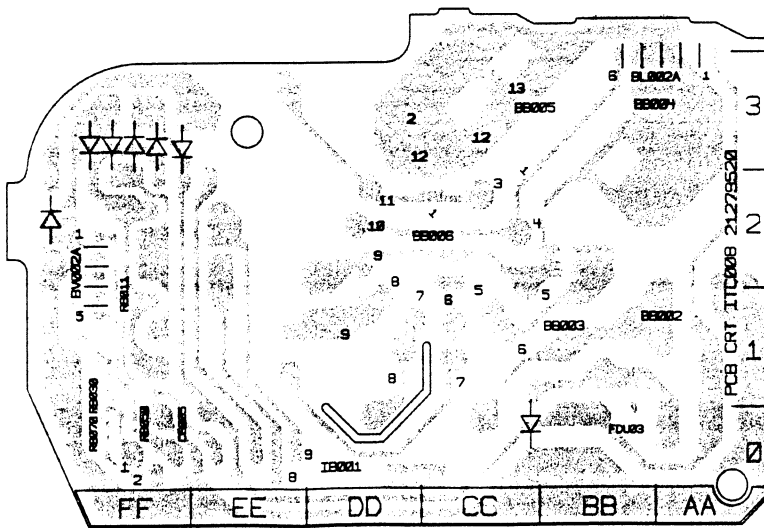


**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO**

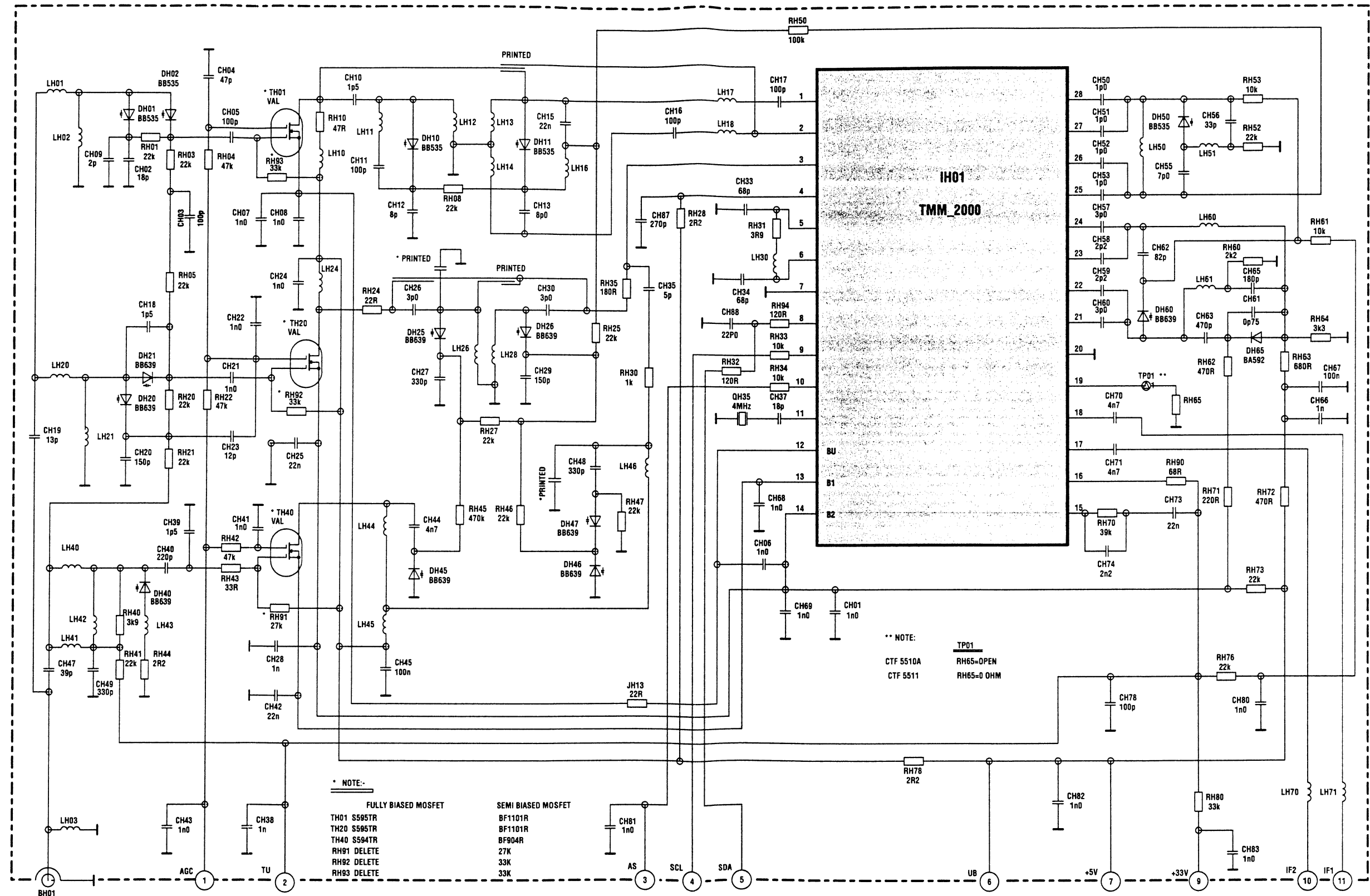
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -  
LATO COMPONENTI - LADO COMPONENTES



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE  
- LADO SOLDADURAS



# VHF / UHF TUNER CTF 5510 - CTF 5511





COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE  
LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

\* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1	2	3
BF001	•	UU11
BF002A	•	S13
BF002B	•	R13
BH001	•	XX1
BH002	•	W1
BH002	•	WW1
BJ005	•	D5
BJ005	•	DD5
BJ006	•	D6
BJ006	•	DD6
BL001	•	U11
BL002	•	S12
BL002	•	XX11
BL002	•	SS12
BL003	•	T16
BL003	•	TT15
BL003A	•	T16
BL003B	•	T15
BL003C	•	T15
BL004	•	U15
BL004	•	TT15
BL005	•	R14
BL005	•	RR13
BL005A	•	R13
BL005B	•	R13
BL006	•	S3
BL006	•	SS3
BL007	•	V12
BL007	•	VV12
BL008	•	W10
BL008	•	WW10
BL009	•	W10
BL009	•	WW10
BP001	•	J13
BP001	•	HH13
BP0013A	•	HH13
BP0013B	•	HH13
BP001A	•	H13
BP001B	•	H13
BP002	•	G11
BP002	•	HH10
BP002A	•	G10
BP002B	•	G10
BP003	•	G14
BP003	•	HH14
BP006A	•	P7
BP006A	•	PP7
BP006B	•	P7
BP006B	•	PP7
BP006C	•	M7
BP006C	•	MM7
BP006D	•	P12
BP006E	•	P11
BP007	•	H8
BP007	•	HH8
BP007A	•	H8
BP007B	•	H8
BP007C	•	G8
BP008	•	H12
BP008	•	HH11
BP008A	•	H12
BP008B	•	H11
BP011	•	E9
BP011	•	EE10
BP011A	•	E10
BP011B	•	E10
BP012	•	F13
BP012	•	FF12
BP012A	•	F12
BP012B	•	F12
BP013A	•	H13
BP013B	•	H13
BP015	•	N14
BP015B	•	L14
BP016A	•	F11
BP016B	•	E11
BP020	•	H15
BP020	•	HH15
BP090	•	P6
BP090	•	PP6
BP091	•	N6
BP099	•	Q12
BP099	•	QQ12
BR001	•	F7
BR001	•	EE7
BR002	•	XX8
BR003	•	R7
BR003	•	RR7
BR004	•	Q0
BR004	•	QQ0
BR005	•	T0
BR005	•	TT0
BR006	•	S0
BR006	•	SS0
BR007	•	U3
BR007	•	VV3
BR008	•	E6
BR009	•	F8

BR009	•	FF7
BR010	•	P1
BR010	•	NN1
BR016	•	S0
BR016	•	SS0
BR017	•	V3
BS002	•	H0
BS002	•	HH1
BS003	•	G3
BS004	•	G2
BS004	•	HH2
BS005	•	XX1
BS006	•	WW0
BS008	•	E4
BS008	•	DD4
BS009	•	M3
BS009	•	MM3
BV001	•	W7
BV001	•	XX5
BV002	•	R7
BV002	•	RR7
BV004	•	F6
BV004	•	FF6
BV008	•	EE6
BZ01	•	XX15



CP018	•	H16
CP022	•	K14
CP024	•	J11
CP025	•	J11
CP026	•	K12
CP032	•	M7
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CP034	•	N7
CP035	•	L7
CP036	•	L7
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CR024	•	WW8
CR033	•	QQ4
CR057	•	UU7
CR071	•	V0
CR074	•	SS7
CS001	•	WW0
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CS003	•	DD4
CS004	•	DD5
CS005	•	F4
CS006	•	EE5
CS007	•	EE5
CS008	•	F4
CS101	•	U4
CS102	•	VV3
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CV036	•	WW4
CV040	•	WW7
CV041	•	WW6
CV042	•	WW5
CV043	•	WW5
CV045	•	Q7
CV046	•	QQ6
CV051	•	XX4
CV052	•	XX4
CV070	•	TT4
CV071	•	TT5
CV072	•	S7
CV076	•	SS4
CV108	•	SS4
CV111	•	SS3
CV113	•	SS4
CZ03	•	VV15

DP002	•	H10
DP003	•	J10
DP004	•	J9
DP005	•	J8
DP023	•	K12
DP025	•	K11
DP026	•	K12
DP027	•	L10
DP028	•	K10
DP030	•	K15
DP033	•	K14
DP036	•	K7
DP037	•	H11
DP040	•	K13
DP057	•	P15
DP061	•	P11
DP063	•	N8
DP071	•	F6
DP080	•	P14
DP093	•	P8
DP095	•	K5
DP097	•	N6
DP099	•	H6
DR001	•	N3
DR002	•	PP1
DR011	•	V1
DR011	•	QQ4
DR012	•	U1
DR013	•	P4
DR014	•	WW6
DR015	•	WW6
DR016	•	W4
DR017	•	W4
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DR023	•	W3
DR024	•	W3
DS003	•	HH3
DS101	•	N1
DS201	•	H6
DS202	•	G6
DS203	•	LL4
DS204	•	MM0
DS206	•	QQ4
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DV070	•	VV8
DV071	•	T6
DV073	•	W5
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DZ03	•	W15
DZ05	•	W9



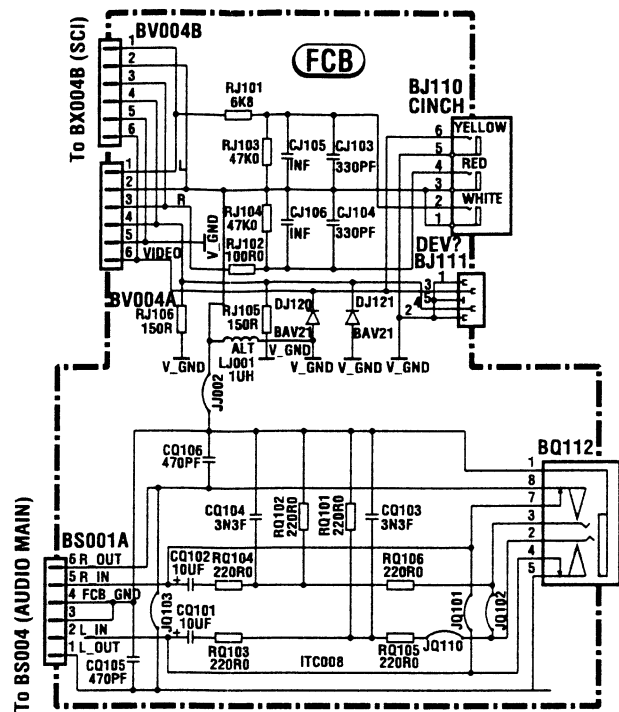
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IS200	•	JJ0
IS200A	•	M1
IV001	•	U4
IV001	•	SS4



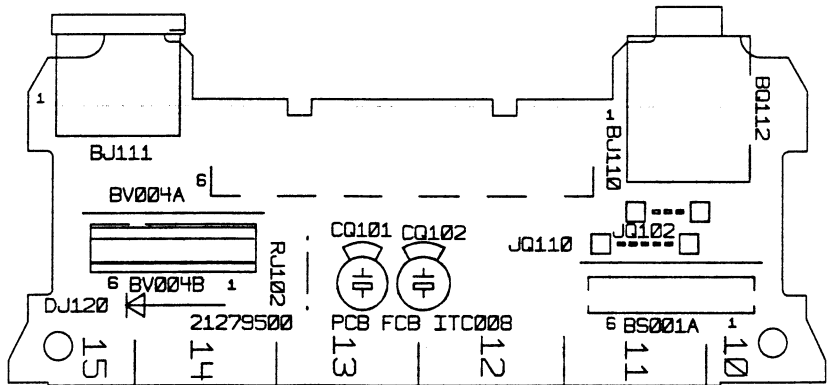
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JP082	•	P8
JP085	•	P8
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JR001	•	U0
JR003	•	Q7
JR004	•	N5
JR005	•	V6
JR006	•	P0
JR007	•	S0
JR008	•	R7
JR009	•	S5
JR010	•	VV2
JR012	•	R1
JR013	•	P0



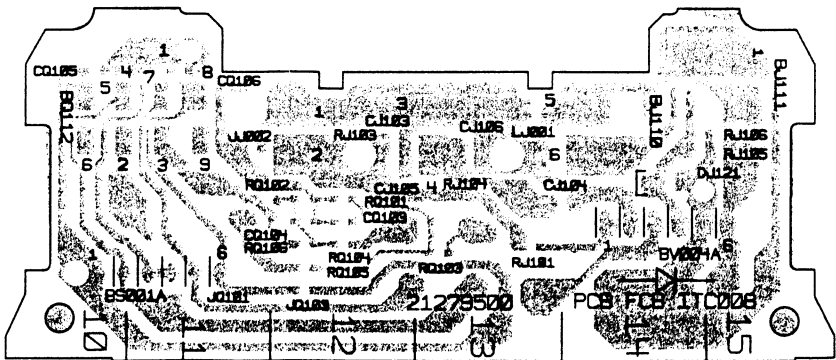
FRONT CONNECTOR BOARD - PRISES EN FACADE ET INTERCONNEXION DU CLAVIER -FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE FRONTALE - PLÁTINA MANDOS FRONTAL



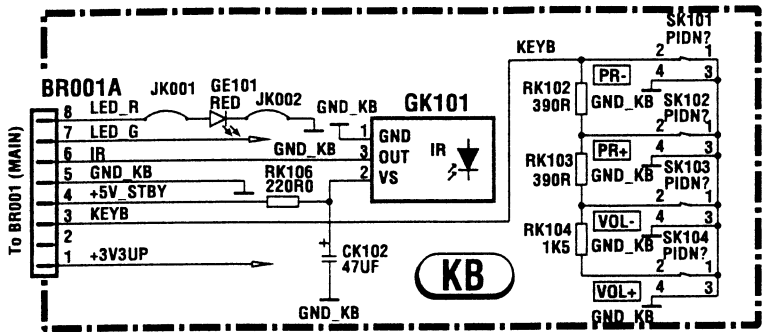
COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



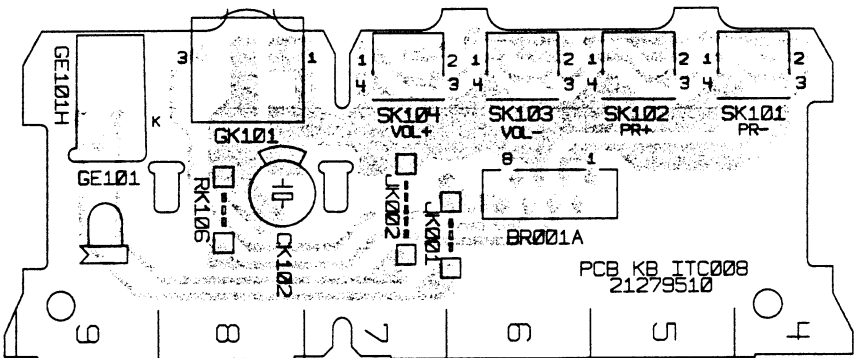
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



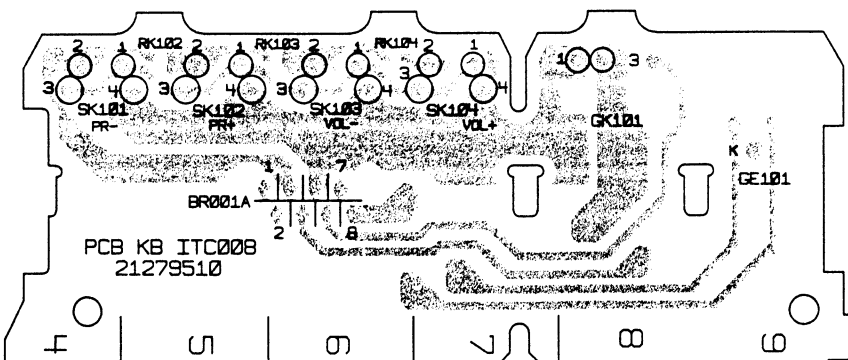
KEYBOARD - CIRCUITS DE COMMANDES - SCHALTBILD BEDIENTEIL - SCHEMA DEI CIRCUITI TASTIERA - ESQUEMA DE LOS CIRCUITOS MANDOS



COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE - LATO COMPONENTI - LADO COMPONENTES



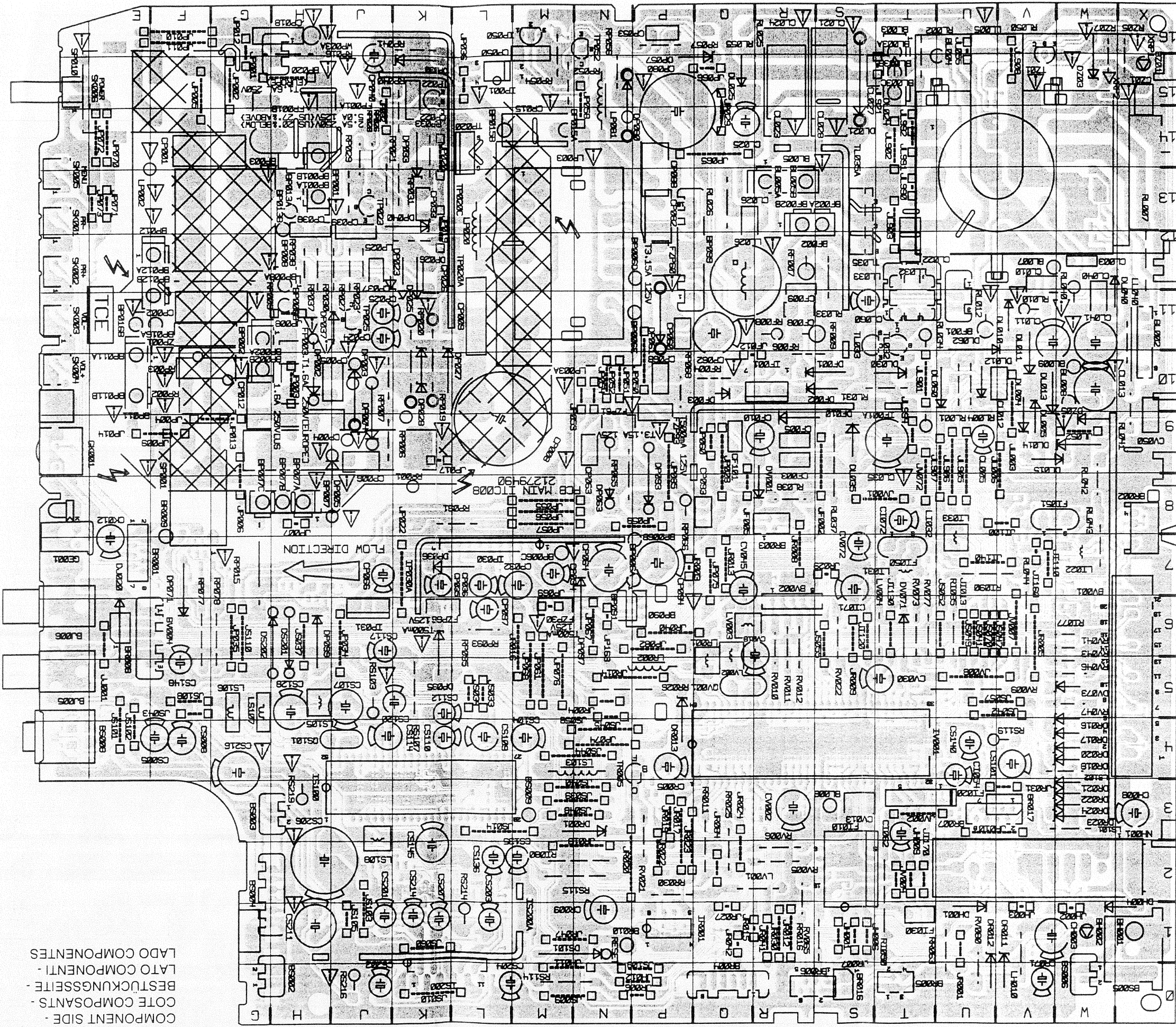
SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS





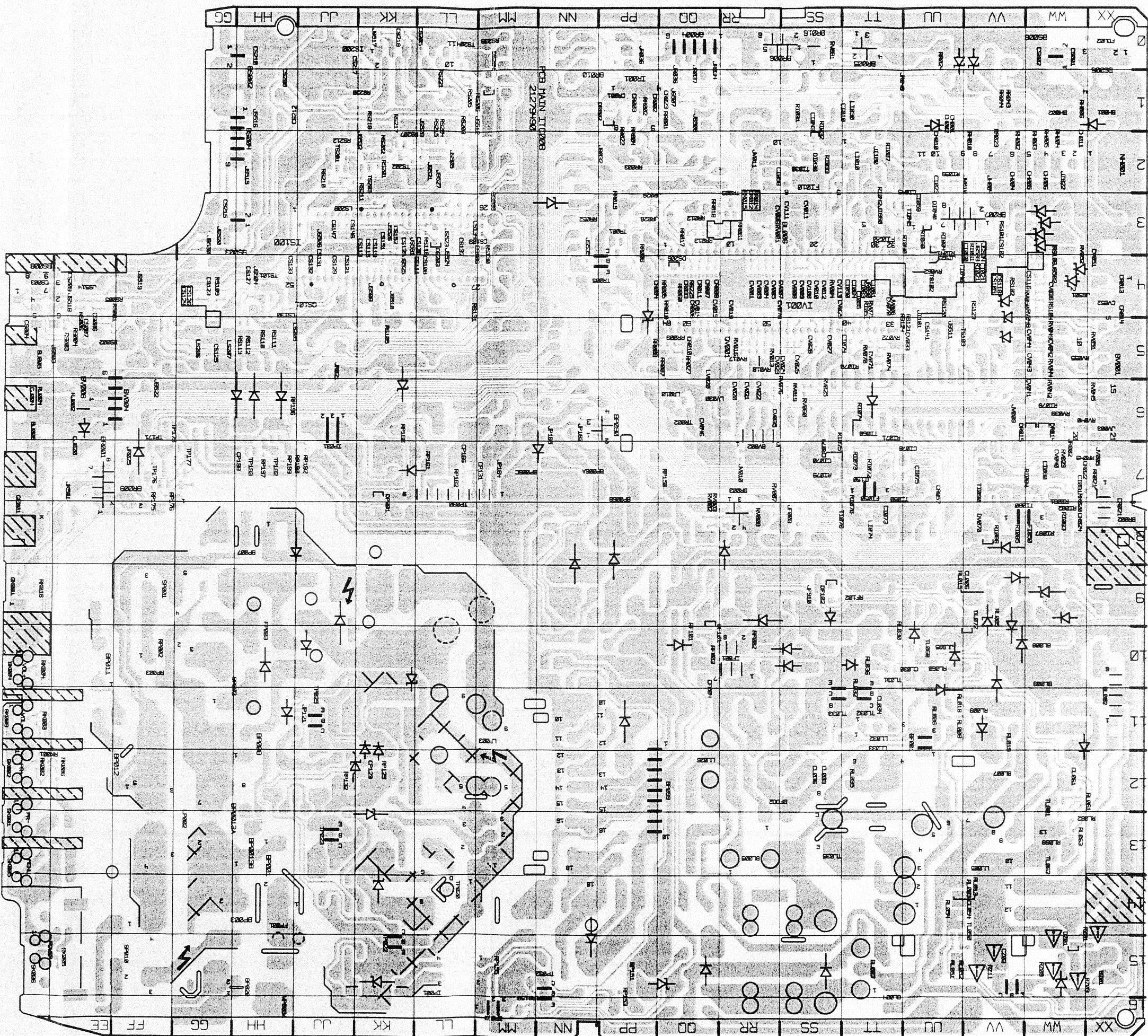
MAIN BOARD - PLATINE PRINCIPALE - PIASTRA PRINCIPALE - CHASSIS GRUNDPLATTE - PLATINA PRINCIPAL

COMPONENT SIDE -  
COTE COMPOSANTS -  
BESTÜCKUNGSSSEITE -  
LATO COMPONENTI -  
LADO COMPONENTES



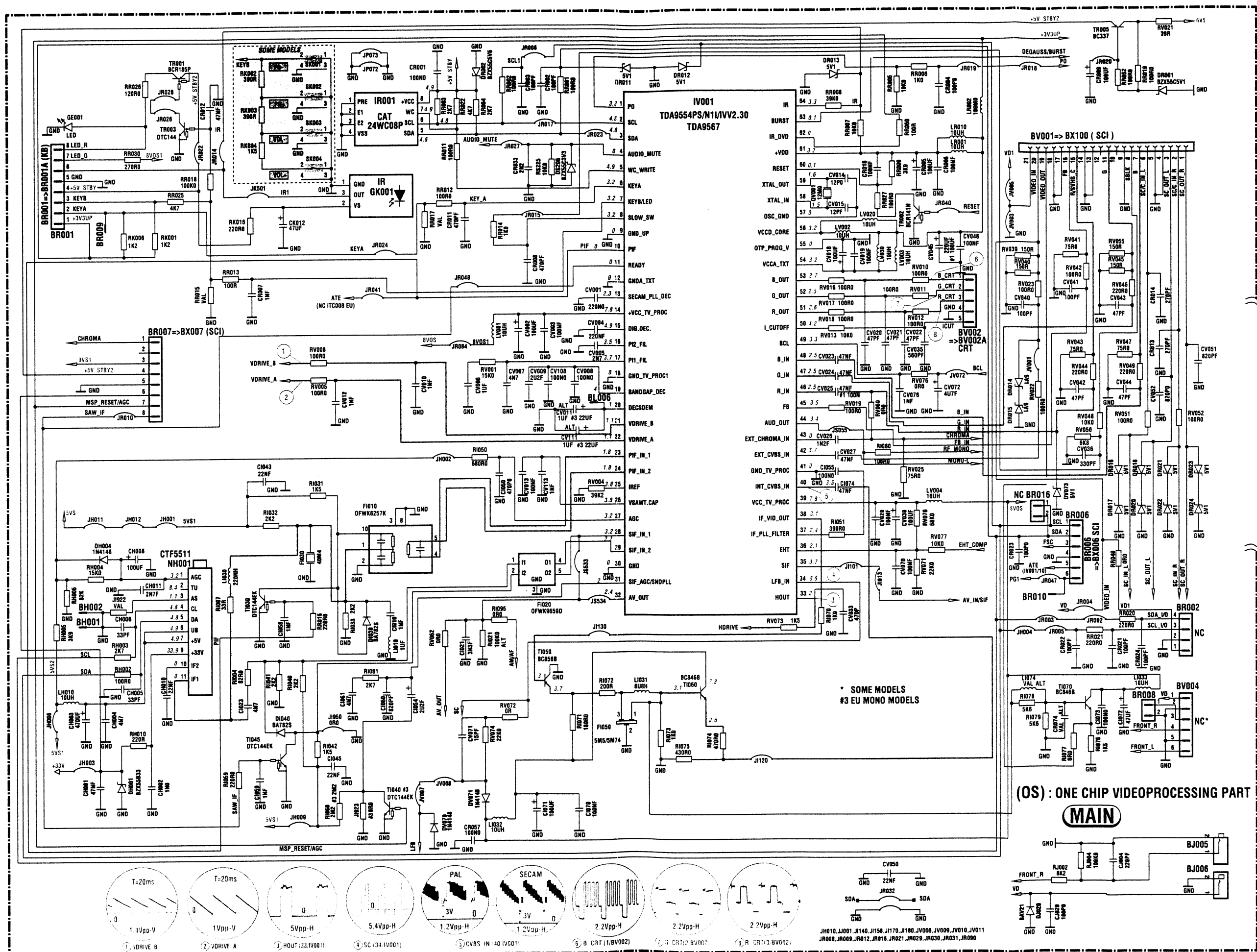


MAIN BOARD - PLATINE PRINCIPALE - CHASSIS GRUNDPLATTE - PIASTRA PRINCIPALE

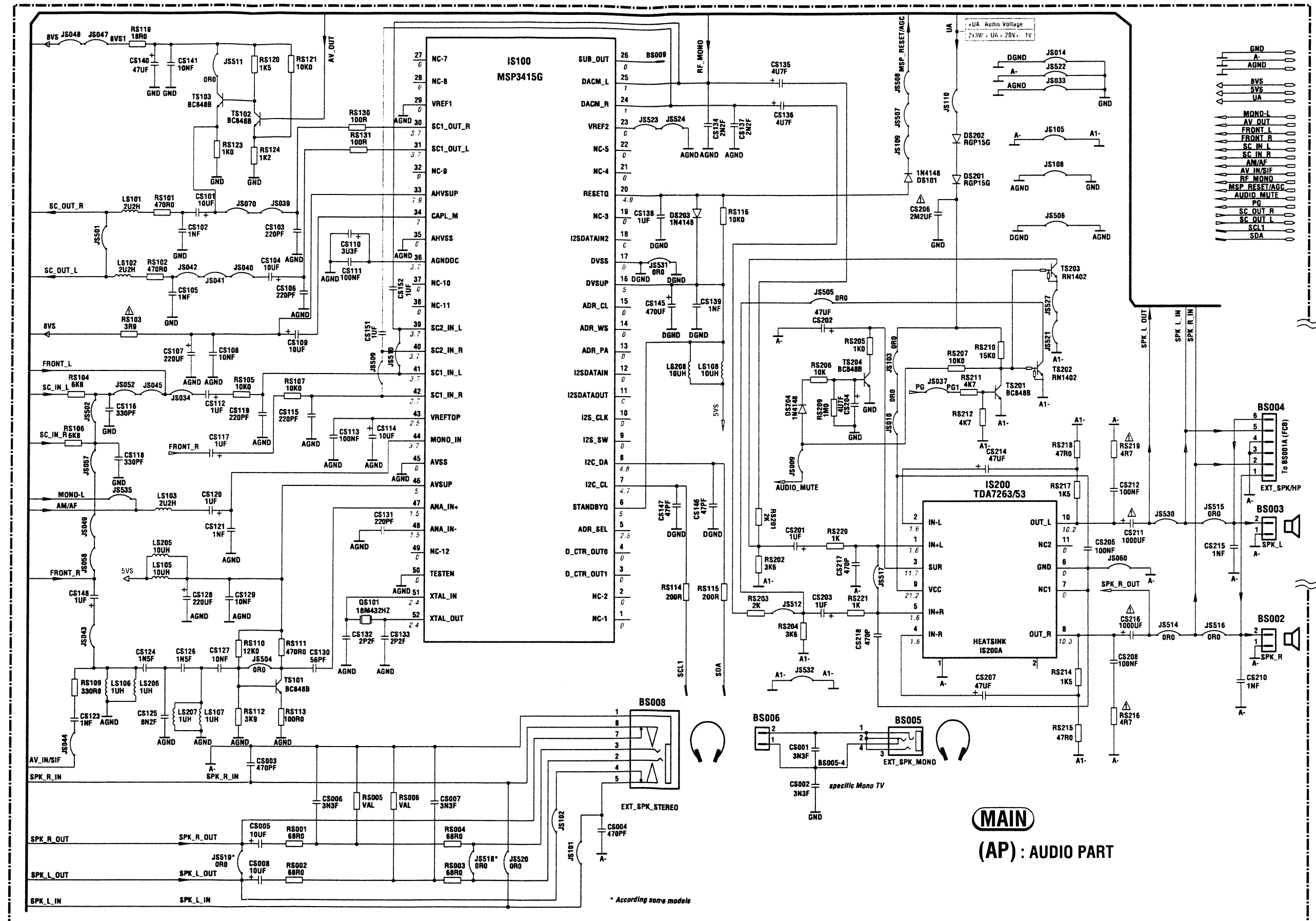


SOLDER SIDE -  
CÔTE SOUDURES -  
LÔTSEITE -  
LATO SALDATURE -  
LADO SOLDADURAS

























COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADADA











SET-UP LINES	
ET1 ID: S2.3	
INIT	
KEY	Off
LOCK	Off
LIMIT	<0-63> 32
ET1 ID:S2.3	
<p><b>INIT</b> Initialise TV set.Press "OK" button. Sets all Service Mode functions stored in the EEPROM to their default values. See below the default values table.</p> <p>⚠ "INIT" copy all service parameters from the ROM to EEPROM. It will be necessary in this case to readjust most of the service mode functions.</p> <p>⚠ "INIT" copie toutes les valeurs par défaut stockées en ROM vers l'EEPROM. Il peut être nécessaire dans ce cas de reprendre la plupart des réglages du mode service.</p> <p>⚠ "INIT" kopiert alle Service-Parameter aus dem ROM in das EEPROM. Es ist anschliessend notwendig die meisten Service-Funktionen neu abzugleichen</p> <p>⚠ "INIT" copia tutti i parametri di servizio dalla ROM alla EEPROM. Sarà necessario in seguito regolare alcune funzioni in Service Mode.</p> <p>⚠ "INIT" copia todos los valores por defecto memorizados en la ROM hacia la EEPROM. Puede ser necesario en el caso de tener que reajustar la mayor parte de los ajustes en Modo Servicio</p>	
Key Lock Pr+ Pr- on the front panel	<p>ON :</p> <p>Disable the PR keys. Touches PR du clavier inactives. Disable the PR keys. Disable the PR keys. Disable the PR keys.</p>
Lock Lock for Hotel Mode	Factory Setting
Limit Limit for Volume control	Factory Setting

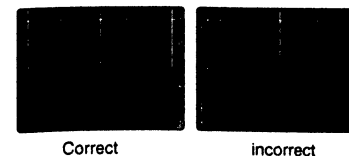
<b>VIDEO LINES</b> <b>VG2</b> <b>03</b> <b>AGC</b> <b>34</b> <b>BKS*</b> <b>01</b> <b>OS-B</b> <b>02</b> <b>PKWS*</b> <b>36</b> <b>33</b> <b>33</b> <b>WPBS*</b> <b>33</b> <b>WPGS*</b> <b>33</b> <b>WPRS*</b> <b>36</b> <b>BLOGS*</b> <b>37</b> <b>BLORS*</b> <b>32</b> <b>YD</b> <b>00</b> <b>CL</b> <b>11</b>																			
<b>VG2</b> <b>G2 Alignment</b>	 = 50% TV to AV or RF : White box test pattern in center white = 100%  Adjust G2 with the SCREEN potentiometer (LL005) to get 03 Régler G2 avec le potentiomètre SCREEN (LL005) pour obtenir 03 Gleichen Sie G2 mit dem SCREEN-Potentiometer (LL005): VG2=03 Regolar il potenziometro G2 SCREEN (LL005) : VG2=03 Ajustar la G2 con el potenciómetro SCREEN (LL005): VG2=03.																		
<b>AGC</b> <b>AGC - Automatic Gain Control alignment</b>  <ul style="list-style-type: none"> <li>- Minimum noise- Minimum de bruit</li> <li>- Minimum Rauschen - Rumore minimo</li> <li>- Minimo ruido</li> </ul>																			
<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;">         210.25 Mhz 3mV       </div> <div style="text-align: center;">         antenna input       </div> <div style="border: 1px solid black; padding: 10px; margin-left: 10px;">         chassis ITC008  <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">Tuner</div> <div>11</div> <div>IF</div> </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div>BG CH 10</div> <div>↑</div> <div>Monitor IF 38.9 MHz</div> </div> </div> </div> <ul style="list-style-type: none"> <li>- Set AGC to 00</li> <li>- Adjust AGC for maximum gain of IF signal.</li> <li>- Reduce IF level about 8dB.</li> </ul> <p><b>ROM Default Value : AGC : 20</b></p>																			
<b>BKS</b> <b>Black Stretch</b>	<b>Factory Setting</b>																		
<b>OS_B</b> <b>Sub-Brightness</b>	 <div style="display: flex; align-items: center; margin-top: 10px;">  = 50%          Grey scale          test pattern          white = 100%          TV : BG or L       </div> <div style="text-align: center; margin-top: 10px;">           ↑ black       </div>																		
<b>PKWS / PKWP**</b>  <b>Peak White</b> <b>SECAMP/PAL</b>	<div style="display: flex; align-items: center; margin-bottom: 10px;">  = 50%     = 70%     </div> <p>Peak white test pattern. white = 100% colourimeter</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sets</th> <th style="text-align: left;">Nits</th> </tr> </thead> <tbody> <tr> <td>21" OT 90° sets</td> <td>420 +/- 10%</td> </tr> <tr> <td>21" XF-TTD</td> <td>420 +/- 10%</td> </tr> <tr> <td>25" XF Toshiba</td> <td>300 +/- 10%</td> </tr> <tr> <td>28" MP</td> <td>300 +/- 10%</td> </tr> <tr> <td>29" XF-Samsung</td> <td>200 +/- 10%</td> </tr> <tr> <td>29" XF TTD II</td> <td>250 +/- 10%</td> </tr> <tr> <td>33" MP</td> <td>250 +/- 10%</td> </tr> <tr> <td>34" XF TTD</td> <td>200 +/- 10%</td> </tr> </tbody> </table>	Sets	Nits	21" OT 90° sets	420 +/- 10%	21" XF-TTD	420 +/- 10%	25" XF Toshiba	300 +/- 10%	28" MP	300 +/- 10%	29" XF-Samsung	200 +/- 10%	29" XF TTD II	250 +/- 10%	33" MP	250 +/- 10%	34" XF TTD	200 +/- 10%
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33" MP	250 +/- 10%																		
34" XF TTD	200 +/- 10%																		

<p>Drive**</p> <p>WPRS / WPRP White Point Red SECAM/PAL</p> <p>WPGS / WPGP White Point Green SECAM/PAL</p> <p>WPBS / WPBP White Point Blue SECAM/PAL</p>		<p> +  +  = 50%</p> <p>Grey scale test pattern white =100%</p> 
<p>Cut-off **</p> <p>BLORS / BLORP Black Level Offset Red SECAM/PAL</p> <p>BLOGS / BLOGP Black Level Offset Green SECAM/PAL</p>		<p> +  +  = 50%</p> <p>Grey scale test pattern white =100%</p> 
<p>YD Luminance Delay</p>		<p>Use   to adapt the image</p>
<p>CL Cathode Level</p>	<p>Factory setting. Extension of the peak White range.</p> <p>Réglage usine. Extension des valeurs de réglages du Peak White.</p> <p>Fabrik-Einstellung (Umfang des Spitzenweiß Ein- bereiches)</p> <p>Factory Setting. Extension of the peak White range.</p> <p>Ajuste de fábrica Extensión del margen del Peak White.</p>	

\*Perform the G2 and the Focus settings beforehand.  
 Effectuez au préalable les réglages de G2 et de focus.  
 Stellen Sie zuvor G2 und "Focus" ein.  
 Effettuare le regolazioni G2 e del Foco innanzitutto.  
 Efectuar previamente los ajustes de G2 y Foco

\*\* Adjust separate for PAL / SECAM.  
 \* S \* : Video signal received is SECAM.  
 \* P \* : Video signal received is PAL.

GEOMETRY LINES		
VSH	32	
SC	27	
VA	37	
VS	38	
HSH	37	
VSH		
SC S-Correction		
VA		
<p><b>VS</b> <b>V_Slope</b></p> <ul style="list-style-type: none"> <li>- Apply a test pattern signal to the TV with a single horizontal and vertical line on the screen.</li> <li>- Select the "VS" line of the menu. The bottom half of the screen will go black.</li> <li>- Adjust VS until the centre line of the pattern is just invisible.</li> <li>- Leave the line "V_Slope".</li> <li>- Switch the test pattern signal to the crosshatch geometry pattern.</li> <li>- Perform the geometry adjustments described below.</li> </ul> <p>- Appliquer une mire de barres avec seulement une ligne blanche horizontale en milieu de l'écran.</p> <p>- Sélectionner la ligne "V_Slope".</p> <p>- La moitié basse de l'écran devient noire.</p> <p>- Aligner "V_Slope" pour que la ligne médiane soit à peine non visible.</p> <p>- Commuter la mire en mode de réglage de géométrie (quadrillage).</p> <p>- Effectuer les réglages de géométrie ci-après :</p> <p>- Speisen Sie ein Testbild mit einem horizontalen Strich in der Bildmitte ein.</p> <p>- Wählen Sie im Menü die Funktion "V-Slope" an.</p> <p>- Die untere Bildhälfte wird dunkel.</p> <p>- Stellen Sie "V-Slope" so ein, daß die Mittellinie fast verschwindet.</p> <p>- Verlassen Sie die Funktion "V-Slope".</p> <p>- Speisen Sie ein Gittertestbild ein.</p> <p>- Nehmen Sie die Geometrie-einstellungen wie nebenstehend beschrieben vor.</p> <p>- Applicare un monoscopio con un'unica linea bianca orizzontale al centro dello schermo</p> <p>- Selezionare la riga "V slope" del menu. La parte bassa dello schermo viene oscurata.</p> <p>- Allineare la "Vertical Slope" in modo che la linea centrale sia appena visibile</p> <p>- Abbandonare la riga "V slope".</p> <p>- Posizionare il monoscopio</p> <p>- Effettuare le regolazioni di geometria descritte in precedenza</p> <p>- Memorizzare.</p> <p>- Aplique una carta de ajuste con sólo una línea blanca horizontal y una vertical en el centro de la pantalla.</p> <p>- Seleccionar en el menú, la línea "V-Slope". La mitad inferior de la pantalla se pondrá oscura.</p> <p>- Ajuste "V-Slope" justo hasta que la línea horizontal sea invisible.</p> <p>- Cambiar la carta de ajuste a "cuadrícula" y efectuar los ajustes de geometría descritos a continuación</p> <p>- Antes de salir, memorizar con "Store"</p>		
HSH		



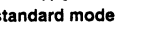
IF / SET-UP LINES	
OIF	24
OIF Offset IF demodulator	Factory Setting OIF=24Hz

<b>VIDEO PROCESSOR LINES*</b>	
<b>SOC*</b>	<b>03</b>
<b>SOC*</b> <b>Peak White</b> <b>Limiting</b>	<b>Factory Setting SOC=03H</b>

\* According to software version.  
Selon version de software.


**90° tube**  
Signal : 50 Hz - 4/3 test pattern


**4 / 3  
standard mode**





**OverScan V=107% , H=107%**

- 1 - Adjust Horizontal Centering (HS)
 


- 2 - Adjust Vertical centering (VSH) and Vertical amplitude 107% (VA)
- 3 - Adjust Vertical Slope (VS) and linearity (SC)
 



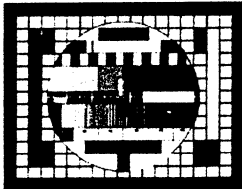




4-If necessary repeat VSH, VA alignment to 7% overscan.

Signal : 50 Hz - 4/3 test pattern

**4 / 3**  
**standard mode**




**Overscan V=107% , H=107%**

**EAST-WEST MODULE**


1 - **PL140** : Turn fully counterclockwise.

**MAIN BOARD**

2 - Adjust Horizontal Centering (HS)




3 - Adjust Vertical centering (VSH) and Vertical amplitude 107% (VA)  
4 - Adjust Vertical Slope (VS) and linearity (SC)




5 - If necessary repeat VSH, VA alignment to 7% overscan.

**EAST-WEST MODULE**


6 - **PL140** : Adjust Horizontal amplitude with PL140 for optimum overscan.



7 - **PL141** : Adjust Pincushion.



8 - **PL143** : Adjust Trapezium



9 - If necessary repeat Horizontal amplitude, pincushion correction and trapezium alignment

EACEM - SECTION CODES

COMMON	
ANT	ANTENNA SECTION
APR	SIGNAL PROCESSING (ANALOG)
BCH	BATTERY CHARGE
CLK	CLOCK/TIMER SECTION
CPA	COLOUR PROCESSING/ANALOG
CTR	CONTROL PANEL
DPR	SIGNAL PROCESSING (DIGITAL)
ERA	ERASE CIRCUIT
FLX	FLEXIBLE PRINTED CIRCUIT BOARD
HFS	HIGH FREQUENCY SECTION (RF)
IDS	INFORMATION DISPLAY SECTION
IFC	IF-CIRCUIT
ILN	i.LINK (IEEE1394) SECTION
INP	SIGNAL INPUT SECTION
IRD	INFRARED (IrDA) SECTION
MEM	MEMORY CIRCUIT
OUT	SIGNAL OUTPUT SECTION
PRG	PROGRAMMING SECTION
PRT	PROTECTION CIRCUIT
PSU	POWER SUPPLY
PWA	POWER AMP SECTION
REM	REMOTE CONTROL SECTION
RFU	BOOSTER,RF UNIT
SFT	SOFTWARE (TAPE, DISC, ETC.)
SNS	SENSOR UNIT
SVO	SERVO SECTION
SYS	SYSTEM CONTROL SECTION
TUN	TUNING SECTION
TXT	TEXT PROCESSING
SOUND-RELATED	
APA	AUDIO PROCESSING/ANALOG
APD	AUDIO PROCESSING/DIGITAL
CDC	CD CHANGER SECTION
CDS	CD SECTION
MDC	MD CHANGER SECTION
MDS	MINIDISC SECTION
MIC	MICROPHONE SECTION
PUD	PICK-UP DEVICE
SHD	STATIONARY HEAD(S)
SPK	SPEAKER
PICTURE-RELATED	
CAM	CAMERA CIRCUIT
CPD	COLOUR PROCESSING/DIGITAL
CRT	PICTURE TUBE
DFL	DEFLECTION CIRCUIT
DVD	DVD SECTION
FPK	FOCUS PACK
IMG	IMAGE DISPLAY UNIT

PICTURE-RELATED	
LCD	LCD SECTION
LMP	LAMP/FLASH SECTION
VPA	VIDEO PROCESSING/ANALOG
VPD	VIDEO PROCESSING/DIGITAL
VWF	VIEWFINDER
PC-RELATED	
FDD	FLOPPY DISC DRIVE
FMW	FIRMWARE
HDD	HARD DISC DRIVE
ISA	ISA SECTION
JST	JOYSTICK
KBD	KEYBOARD (SEPARATE)
MDM	MODEM SECTION
NIF	NETWORK INTERFACE
PAR	PARALLEL PORT
PCC	PC CARD
PCI	PCI SECTION
SCS	SCSI PORT
SER	SERIAL PORT
USB	USB PORT
MECHANICAL	
ARM	ARM MECHANISM
BZL	BEZEL
CBT	CABINET
CHA	CHASSIS
DDM	DISC DRIVE MECHANISM
EXC	EXTERNAL CONNECTOR
HCM	HEAD CARRIAGE MECHANISM
HOL	CASSETTE HOLDER
INC	INTERNAL CONNECTOR
LDG	LOADING MECHANISM
LMN	LENS MECHANISM
PFM	PAPER FEED MECHANISM
PIN	PINCH ROLLER/LEVER
PRI	PRINT BLOCK
RFM	RIBBON FEED MECHANISM
RHD	ROTARY HEAD(S)
SLD	SLED MECHANISM
SRS	SUPPLY REEL SECTION
STA	STATIC BLOCK
TDM	TAPE DRIVE MECHANISM
THR	THREADING MECHANISM
TNR	TENSION REGULATOR
TPT	TAPE PATH
TRS	TAKE-UP REEL SECTION
WIR	LEAD WIRE
XXX	CABINET/COSMETIC PARTS

DEFECT CODES	
MECHANICAL	
A	WORN OUT (OR GENERAL MECHANICAL DEFECT)
A1	MISOPERATING
B	DIRTY, CLOGGED
C	MECHANICALLY MISALIGNED
D	CUT, BROKEN
E	DEFORMED
F	SNAPPED
G	SCRATCHED, DENTED, SHARP EDGES
H	CRACKED, PEELED, CORRODED, MELTED
I	LOOSE/OFF/STRIPPED
J	SHAKY, UNSTABLE
K	LEAKING (MECHANICAL)
L	DRY (NO LUBRICANT)
M	FOREIGN OBJECT
ELECTRICAL	
N	DEFECTIVE ELECTRICAL COMPONENT/MODULE
O	BURNT, ARCING, MISSING PIXELS
P	ELECTRICALLY MISALIGNED/WRONG SETTING
Q	SHORT CIRCUIT
R	OPEN CIRCUIT
S	LEAKING (ELECTRICAL)
T	BAD CONTACT, CONNECTION
T1	BAD EARTH CONNECTION
U	OPEN PATTERN
V	CRACKED PRINTED CIRCUIT BOARD
W	COLD OR NO SOLDERING
X	BRIDGED SOLDERING
Y	WRONG COMPONENT/MODULE
Z	MISSING COMPONENT/MODULE
1	SOFTWARE PROBLEM
11	LOSING DATA FROM MEMORY
12	FAULTY PROGRAM SETTING/INSTALLATION
13	SOFTWARE DEFECTIVE OR INCOMPLETE
14	SOFTWARE SETUP PROBLEM
15	NO IDENTIFICATION / AUTHENTICATION OF PRODUCT OR USER
2	EXHAUSTED, LOW EMISSION
3	NO PROBLEM FOUND (SET WITHIN SPEC)
4	NO PROBLEM FOUND - CUSTOMER MISUNDERSTANDING
5	NO PROBLEM FOUND - LOCAL CONDITIONS
51	FAULTY MAINS VOLTAGE
6	UNABLE TO DIAGNOSE FAULT
7	INCORRECTLY WIRED/ASSEMBLED
81	INCORRECT EQUIPMENT CONNECTION
9	CUSTOMER MISUSE
93	UNAUTHORISED MODIFICATION

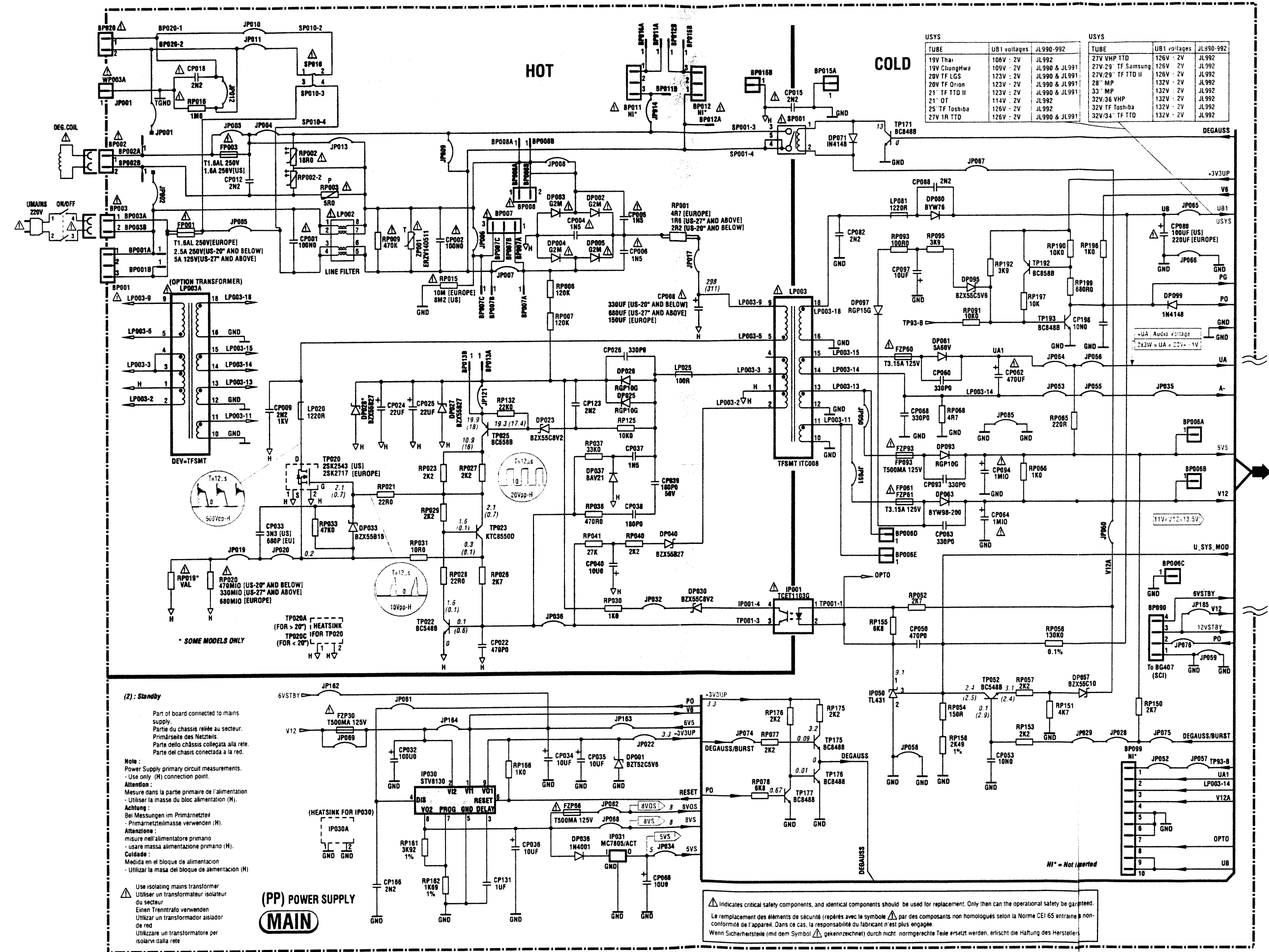
REPAIR CODES	
A	REPLACEMENT
B	MECHANICAL ALIGNMENT
C	ELECTRICAL ALIGNMENT
D	RESOLDERING
D1	REFITTING, PUT BACK IN POSITION (CONNECTOR, TUBE...)
E	CLEANING
F	LUBRICATION
G	REPAIRED ELECTRICAL PARTS
H	REPAIRED MECHANICAL PARTS
I	MODIFICATION REQUESTED BY MANUFACTURER
J	REMOVED
K	ADDED
L	FUNCTIONAL CHECK
M	SPECIFICATION MEASUREMENT
N	MAINTENANCE
O	REFURBISHING, RECONDITIONING
P	PREVENTIVE PARTS REPLACEMENT
Q	PREVENTIVE ACTION WITHOUT PARTS REPLACEMENT
U	EXPLANATION FOR CUSTOMER
V	COST ESTIMATION REFUSED
W	COST ESTIMATION WITH PARTS
X	COST ESTIMATION WITHOUT PARTS
Y	RETURN WITHOUT REPAIR
Z	PRODUCT EXCHANGE
Z1	PRODUCT EXCHANGE (REPAIR TOO EXPENSIVE)
Z2	PRODUCT EXCHANGE (TOO MANY VISITS/REPAIRS)
Z3	PRODUCT EXCHANGE (PARTS NOT AVAILABLE)
Z4	PRODUCT EXCHANGE (IMPOSSIBLE TO REPAIR)
Z5	PRODUCT EXCHANGE (ON REQUEST OF RETAILER)
Z6	PRODUCT EXCHANGE (ON REQUEST OF MANUFACTURER)
1	SOFTWARE CORRECTION/RESET
2	SOFTWARE UPGRADE
3	PRODUCT UPGRADE (ON REQUEST)

EXAMPLE OF USE:

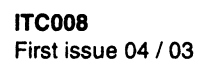
FLAG	SYMPTOM CODE	PART NO.	REF. NO.	SECTION	PCB	DEFECT CODE	REPAIR CODE	QTY
1	1 4 1 2 3 6 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 3 4 5 6 7 8 9 X X X X X X X X	R 1 2 3 1 1 1	T D M	Y A 2 2	C 1	Z 1	

FLAG: INDICATES THE ONE MAJOR SYMPTOM/PART COMBINATION BY '1'

COMPLETE PCB DIAGRAM - SCHEMA PLATINE PRINCIPALE EQUIPEE - SCHALTUNG LEITERPLATTE KPL - SCHEMA PIASTRA COMPLETA - ESQUEMA PLATINA EQUIPADA







CONDITION CODE MAIN SYMPTOM CODE EXTENDED SYMPTOM CODE (\*)

EACEM-IRIS REPAIR CODING SYSTEM

SYMPTOM CODE TABLE



1	2	3	4	5	6	7	8
CONSTANTLY	INTERMITTENTLY	AFTER A WHILE	IN A HOT ENVIRONMENT	IN A COLD ENVIRONMENT	WHEN SWITCHING	UNDER VIBRATION	IN A DAMP/WET/ RAINY/SNOWY ENVIRONMENT
ONLY CERTAIN STATIONS/ SOFTWARE/ MODE/ CHANNELS/ FREQUENCY BAND	ONLY ON CERTAIN STANDARDS	ONLY WITH CERTAIN INPUT(S)	ONLY ON CERTAIN OUTPUT(S)	IN STANDBY/OFF MODE	AT EDIT POINT	WHEN INTERCONNECTED	LIQUID CONTAMINATION
FOR A SHORT WHILE AFTER SWITCH-ON	AFTER MAKING A COPY	UNDER STRESSED CONDITIONS / HIGH LOAD	AT SWITCH-OFF				
1	110	120	130	140	150	160	170
NO ACTION	POWER PROBLEM OR NOT OPERATING	CHARGING PROBLEM	DISPLAY FUNCTION PROBLEM	ABNORMAL NOISE	UNSTABLE	RECORDING & PHYSICAL PROBLEMS	SPECIAL FUNCTIONS
111	NO POWER	NO BATTERY CHARGING	FAULTY DISPLAY	CRT DISCHARGING NOISE	151	161	171
112	NO POWER WHEN USING AC-ADAPTER	INCOMPLETE BATTERY CHARGE	FAULTY LAMP/LED OPERATION	EHT DISCHARGING NOISE	152	162	172
113	NO POWER WHEN USING DRY BATTERIES	CHARGING TIME TOO LONG	FAULTY LEVEL METER OPERATION	NOISY CABINET/RACKING TRAYS	153	163	173
114	NO POWER WHEN USING RECHARGEABLE BATTERIES	OTHER 'CHARGING' PROBLEM	FAULTY ON-SCREEN DISPLAY OPERATION	LEAKING MODE PROBLEM	154	164	174
115	NO POWER FROM SOLAR CELL		ELECTRONIC TUNING DISPLAY FAULT	NOISY COMPONENT(S)	155	165	175
116	NO POWER WHEN USING A CAR BATTERY		MECHANICAL TUNING DISPLAY FAULT		156	166	176
117	SHORT OPERATION TIME/SHORT BATTERY LIFE		FAULTY TIME CODE DISPLAY	RATTLE	157	167	177
118	POWER-OFF FUNCTION NOT WORKING		FAULTY ALARM/ERROR DISPLAY	CLICKING	158	168	178
119	POWER-ON FROM STANDBY		DISPLAY DIM/TOO DARK	CLOCK NOISE	159	169	179
11A	POWERS UP, BUT NO OPERATION		UNUSUAL OR INCORRECT MESSAGE IN DISPLAY	CRACKING	160	170	180
11B	CYCLIC POWER ON/OFF		NO BACKLIGHT	WHISTLING	161	171	181
11C	BLOWING EXTERNAL (MAINS) FUSE		BEEPS, NO DISPLAY	OTHER 'ABNORMAL' NOISE	162	172	182
11D	SET SWITCHES OFF BY ITSELF		WARNING LIGHT DOES NOT WORK		163	173	183
11E	BACKUP BATTERY PROBLEM		WARNING LIGHT LIGHTS UP		164	174	184
11F	NOT OPERATING		OTHER 'DISPLAY FUNCTION' PROBLEM		165	175	185
11G	NO AUTOMATIC SWITCH ON/OFF				166	176	186
11H	PROTECTION SWITCH/FUSE IN SET TRIGGERS				167	177	187
11J	RECHARGEABLE BATTERY NOT RECOGNIZED				168	178	188
11X	OTHER 'POWER' PROBLEM				169	179	189
2	210	220	230	240	250	260	270
COMMUNICATION	NO RECEPTION OR CONNECTION	POOR RECEPTION OR CONNECTION	TRANSMISSION/CONNECTION PROBLEM	NOISY RECEPTION/TRANSMISSION	UNSTABLE RECEPTION/TRANSMISSION	TUNING PROBLEM	SPECIAL COMMUNICATION PROBLEM
211	NO AM RECEPTION	POOR AM RECEPTION	NO TRANSMISSION/CONNECTION	LINE NOISE	251	261	271
212	NO FM RECEPTION	POOR FM RECEPTION	POOR TRANSMISSION/CONNECTION	OSCILLATION	252	262	272
213	NO VHF RECEPTION	POOR VHF RECEPTION	TRANSMISSION LEVEL TOO HIGH	INTERSTATION INTERFERENCE	253	263	273
214	NO UHF RECEPTION	POOR UHF RECEPTION	NO TRANSMISSION BETWEEN BASE UNIT AND HANDSET	OTHER 'NOISY RECEPTION/TRANSMISSION' PROBLEM	254	264	274
215	NO BS RECEPTION	POOR BS RECEPTION	POOR TRANSMISSION BETWEEN BASE UNIT AND HANDSET		25X	26X	27X
216	NO CS RECEPTION	POOR CS RECEPTION	NO IR TRANSMISSION				
217	NO HDV RECEPTION	POOR HDV RECEPTION	ONE-SIDED CONNECTION				
218	NO GPS/OPS RECEPTION	POOR GPS/OPS RECEPTION	MODEM HANGS UP IMMEDIATELY ONCE CONNECTED				
21A	NO RECEPTION OF DIGITAL BROADCASTING	POOR RECEPTION OF DIGITAL BROADCASTING	MODEM DROPS LINE DURING CONNECTION				
21B	NO IR RECEPTION	POOR IR RECEPTION	OTHER 'TRANSMISSION/CONNECTION' PROBLEM				
21C	NO DIAL TONE						
21D	NO MODEM/FAX CONNECTION						
21E	MODEM NOT ANSWERING/NO CARRIER						
21F	NO NETWORK CONNECTION/NETWORK INITIALIZATION FAILS						
21X	OTHER 'NO RECEPTION' PROBLEM						
3	310	320	330	340	350	360	370
PICTURE	NO PICTURE	PICTURE LEVEL PROBLEM	PICTURE QUALITY PROBLEM	PICTURE NOISE	UNSTABLE PICTURE	POOR PICTURE RECORDING	SPECIAL PICTURE FUNCTION PROBLEM
311	NO PICTURE IN E TO E MODE	PICTURE TOO DARK	POOR PICTURE RESOLUTION	SNOWY PICTURE	351	361	371
312	NO PICTURE IN PLAYBACK MODE	PICTURE TOO BRIGHT	POOR DOT RESOLUTION	DOT NOISE OR DROPOUT ON PICTURE	352	362	372
313	NO PICTURE IN VIEWFINDER	CONTRAST TOO LOW	RINGING ON PICTURE	NO PICTURE RECORDING	353	363	373
314	NO PICTURE ONLY RASTER	CONTRAST TOO HIGH	EXCESSIVE SMEAR/LAG	NO ERASURE PROTECTION FOR VIDEO	354	364	374
315	NO RASTER, BLACK PICTURE	SATURATED WHITE OR BLACK LEVEL	POOR LINEARITY OR GEOMETRY	PREVIOUS VIDEO RECORDING NOT BEING ERASED	355	365	375
316	ONLY HORIZONTAL LINE	SHADING ON PICTURE	PICTURE SIZE INCORRECT	UNWANTED ERASURE OF PICTURE	356	366	376
317	ONLY VERTICAL LINE	ONLY PARTIAL PICTURE	INCORRECT CENTRING OF PICTURE	NO CAMERA RECORDING	357	367	377
318	NO PICTURE IN LCD	OTHER 'PICTURE LEVEL' PROBLEM	PICTURE SLANT	ONLY ONE FIELD PER FRAME BEING RECORDED	358	368	378
319	NO 2Hz (OR HIGHER) MONITOR DISPLAY		V-SIZE INCORRECT	RECORDS ONLY A FEW PICTURES	359	369	379
31X	OTHER 'NO PICTURE' PROBLEM		H-SIZE INCORRECT	OTHER 'PICTURE RECORDING' PROBLEM	35X	36X	37X
31X	OTHER 'NO PICTURE' PROBLEM		OTHER 'PICTURE QUALITY' PROBLEM				
4	410	420	430	440	450	460	470
COLOUR	NO COLOUR	COLOUR LEVEL PROBLEM	POOR COLOUR QUALITY	NOISY COLOUR	UNSTABLE COLOUR	POOR COLOUR RECORDING	SPECIAL COLOUR FUNCTION PROBLEM
411	NO COLOUR IN E TO E MODE	WEAK COLOUR	SOME OR ALL COLOURS MISSING	COLOUR NOISE ON A BLACK & WHITE PICTURE	451	461	471
412	NO COLOUR IN PLAYBACK MODE	EXCESSIVE COLOUR	POOR WHITE BALANCE	COLOUR STREAKING	452	462	472
413	NO COLOUR IN VIEWFINDER	OTHER 'COLOUR LEVEL' PROBLEM	HUE PROBLEM	COLOUR BARS ON PICTURE	453	463	473
414	NO COLOUR IN PART OF PICTURE		PURITY PROBLEM	OTHER 'COLOUR NOISE' PROBLEM	454	464	474
41X	OTHER 'NO COLOUR' PROBLEM		LANDING ERROR/WHITE UNIFORMITY CONVERGENCE ERROR		45X	46X	47X
5	510	520	530	540	550	560	570
AUDIO	NO AUDIO	AUDIO LEVEL PROBLEM	AUDIO QUALITY	NOISY AUDIO	UNSTABLE AUDIO	POOR AUDIO RECORDING	POOR SPECIAL AUDIO FUNCTION
511	NO SOUND IN E TO E MODE	LOW AUDIO LEVEL	POOR FREQUENCY RESPONSE	HUM	551	561	571
512	NO PLAYBACK OF OUTGOING MESSAGE(S)	EXCESSIVE AUDIO LEVEL	DISTORTED AUDIO	HISS	552	562	572
513	NO PLAYBACK OF INCOMING MESSAGE(S)	BALANCE PROBLEM	NO OR POOR TREBLE	CROSSTALK	553	563	573
514	NO AUDIO PLAYBACK	FADER PROBLEM	NO OR POOR BASS	STATIC, POP OR CLICK NOISE	554	564	574
515	NO SOUND FROM HANDSET	AUDIO LEVEL REMAINING/NO MUTE	EARPHONE/HEADPHONE AUDIO POOR	BUZZ	555	565	575
516	NO SOUND FROM SPEAKER	OTHER 'AUDIO LEVEL' PROBLEM	OTHER 'AUDIO QUALITY' PROBLEM	WOW AND FLUTTER	556	566	576
517	NO SOUND FROM EARPHONE/HEADPHONE			HOWLING/ACOUSTIC FEEDBACK	557	567	577
518	NO MICROPHONE SOUND			ECHO IN SOUND	558	568	578
519	NO SOUND FROM DIGITAL OUTPUT			WHISTLING/MULTIPATH NOISE	559	569	579
51X	OTHER 'NO AUDIO' PROBLEM			DATA/DIGITAL NOISE	55X	56X	57X
6	610	620	630	640	650	660	670
MECHANISM	NO MECHANICAL OPERATION	IRREGULAR MECHANICAL OPERATION	SPEED PROBLEM	MECHANICAL NOISE	MECHANICAL INSTABILITY	DAMAGE TO MEDIA	MECHANICAL OPERATION PROBLEM
611	NO ROTATION OF MOTOR/DISC	IRREGULAR ROTATION	SPEED TOO FAST	ROTATION NOISE DRUM NOISE	651	661	671
612	NO FORWARD OPERATION	IRREGULAR FORWARD MODE	SPEED TOO SLOW	MOTOR NOISE	652	662	672
613	NO REVERSE OPERATION	IRREGULAR REVERSE OPERATION	SPEED UNADJUSTABLE	WIND/AIR NOISE	653	663	673
614	NO FAST FORWARD OR REWIND FUNCTION	IRREGULAR FAST FORWARD OR REWIND FUNCTION	OTHER 'SPEED' PROBLEM	SQUEALING	654	664	674
615	NO LOADING			DAMAGED WHEEL(S)	655	665	675
616	NO UNLOADING OR EJECTING			DISC SCRAPING	656	666	676
617	NO AUTO SHUT-OFF OPERATION			NOISY TAPE LOADING	657	667	677
618	TONER/ARM DOES NOT MOVE			GEAR NOISE	658	668	678
619	DISC NOT BEING EJECTED			CONTROL OR SWITCH NOISY	659	669	679
61A	MAGAZINE OR MODULE			GRINDING	660	670	680
61B	LOADING/UNLOADING			RUMBLING	661	671	681
61X	CONTROL SWITCH NOT WORKING			VIBRATION NOISE	662	672	682
61X	OTHER 'NO MECHANICAL OPERATION' PROBLEM			OTHER 'MECHANICAL NOISE' PROBLEM	66X	67X	68X
7	710	720	730	740	750	760	770
DATA PROCESSING	NO DATA PROCESSING OPERATION	FAULTY DATA PROCESSING OPERATION	DATA DISPLAY PROBLEM	KEYBOARD/POINTING DEVICE	PERIPHERAL PROBLEM (NON-STORAGE)	DATA STORAGE PROBLEM	SPECIAL DATA PROCESSING FUNCTION PROBLEM
711	NO INITIAL SCREEN	INCORRECT DATA	INCORRECT CHARACTER DISPLAY	MOUSE/TRACKBALL/TRACKPAD NOT WORKING	751	761	771
712	SYSTEM DOES NOT RESET	SYSTEM RESET WHILE BEING USED	MISSING DISPLAY CHARACTERS	KEYBOARD LOCKS UP	752	762	772
713	SYSTEM DOES NOT BOOT UP	SYSTEM LOCKS OUT/CRASHES/HANGS	FAULTY GRAPHIC DISPLAY	POINTING DEVICE LOCKS UP	753	763	773
714	NO OPERATION FROM PLUG-IN MODULE/PERIPHERAL	FAULTY OPERATION OF PLUG-IN MODULE	FAULTY SWITCHING BETWEEN GRAPHIC/CHARACTER MODE	STICKY KEY(S)	754	764	774
715	NO KEYBOARD OPERATION	FAULTY KEYBOARD OPERATION	FAULTY PROMPT/CURSOR OPERATION	INOPERATIVE KEY(S)	755	765	775
716	NO OPERATION FROM OTHER INPUT/OUTPUT DEVICE	FAULTY OPERATION OF OTHER INPUT/OUTPUT DEVICE	DATA DISPLAY COLOUR INCORRECT	POINTING DEVICE NOT TRACKING PROPERLY	756	766	776
717	NO DATA STORAGE OPERATION	FAULTY DATA STORAGE OPERATION	NO PAGING OR SCROLL MODE	LEFT- OR RIGHT CLICK BUTTON INOPERATIONAL	757	767	777
718	NO DATA COMMUNICATION	FAULTY DATA COMMUNICATION	OTHER 'DATA DISPLAY' PROBLEM	TRACKPAD SURFACE DAMAGED	758	768	778
719	ERROR MESSAGE DISPLAY	MEMORY ERROR		KEYBOARD KEY(S) DAMAGED	759	769	779
71A	HDD BOOT FAILURE	REQUIRES 'SET UP' AT BOOTING		OTHER KEYBOARD/POINTING DEVICE PROBLEM	760	770	780
71B	FDD BOOT FAILURE				761	771	781
71X	OTHER 'NO DATA PROCESSING' PROBLEM				76X	77X	78X
8	810	820	830	840	850	860	870
PRINT/COPY/SCAN	NO PRINT/COPY/SCAN OPERATION	ERRONEOUS PRINT/COPY/SCAN OPERATION	POOR PRINT QUALITY	NOISY PRINTING	UNSTABLE PRINTER OPERATION	RIBBON/PAPER PROBLEMS	FAULTY FONT/CHARACTER FUNCTIONS
811	NO PRINTING	PRINT IMAGE REVERSED (NEGATIVE/POSITIVE)	INCORRECT PRINTING POSITION	PRINTING NOISE LINES	851	861	871
812	NO COMMUNICATION WITH PRINTER	IRREGULAR PAPER FEED	IRREGULAR PAPER FEED	DIRTY PRINTING	852	862	872
813	PAPER NOT LOADING	ERRONEOUS PRINT MODE SWITCHING	EXCESSIVE PRINT CONTRAST	UNPLEASANT SMELL (OZONE)	853	863	873
814	NO PAPER FEED	COPY TOO DARK	BLURRED PRINT IMAGE	BLACK LINES/STRIPIES IN FEED DIRECTION	854	864	874
815	NO IMAGE FIXATION	COPY TOO BRIGHT	PRINT IMAGE NOT SHARP	WHITE LINES/STRIPIES IN FEED DIRECTION	855	865	875
816	NO DOCUMENT FEEDING	BLACK COPY	DOTS MISSING IN PRINT IMAGE	BLACK LINES/STRIPIES ACROSS FEED DIRECTION	856	866	876
817	SCANNER NOT WORKING	WHITE COPY	COLOUR STREAKING	WHITE LINES/STRIPIES ACROSS FEED DIRECTION	857	867	877
81X	OTHER 'NO PRINT/COPY/SCAN OPERATION' PROBLEM		NO COLOUR IN PART OF PICTURE	OTHER 'NOISY PRINTING' PROBLEM	85X	86X	87X
81X	OTHER 'NO PRINT/COPY/SCAN OPERATION' PROBLEM		PRINT IMAGE/COPY INCOMPLETE				
81X	OTHER 'NO PRINT/COPY/SCAN OPERATION' PROBLEM		FAULTY CALIBRATION				
81X	OTHER 'NO PRINT/COPY/SCAN OPERATION' PROBLEM		POOR SCANNING FUNCTION				
81X	OTHER 'NO PRINT/COPY/SCAN OPERATION' PROBLEM		OTHER 'PRINT QUALITY' PROBLEM				

5	6	7	8
UNSTABLE	RECORDING & PHYSICAL PROBLEMS	SPECIAL FUNCTIONS	OTHER CONDITIONS
150	160	170	180
REMOTE CONTROL PROBLEM	PHYSICAL DAMAGE	GENERAL FUNCTION PROBLEM	SPECIAL REQUIREMENTS
151	161	171	181
NO REMOTE CONTROL OPERATION	DAMAGED/DEFORMED CABINET/PANEL	FAULTY CLOCK FUNCTION	TEST AND CHECK
152	162	172	182
INCORRECT REMOTE CONTROL OPERATION	DAMAGED HANDLE/CLIP	FAULTY SLEEP FUNCTION	GENERAL OVERHAUL
153	163	173	183
REMOTE CONTROL PROGRAMMING/LEARNING MODE PROBLEM	DAMAGED CONTROL KNOB(S)/BUTTON(S)/KEYPAD	FAULTY TIMER PROGRAMMING	SYSTEM/FREQUENCY CONVERSION
154	164	174	184
POOR REMOTE CONTROL SENSITIVITY	DAMAGED DOOR/COVER	FAULTY TIMER OPERATION	INITIAL SETUP/INSTALLATION REQUESTED
15X	16X	17X	18X
OTHER 'REMOTE CONTROL' PROBLEM	DAMAGED SEAL	PROGRAMMING/USER ADJUSTMENT PROBLEM	MODIFICATION/CIRCUIT/INSTALLATION CHANGE
	DAMAGED PLUG/SOCKET/TERMINAL/CONNECTOR	FAULTY RECORD MUTE OPERATION	FAULTY PROGRAM PLAYBACK OPERATION
	DAMAGED LENS	FAULTY MEMORY FUNCTION	ACCESSORY MISSING
	DAMAGED CARTRIDGE OR SYLLUS	FAULTY INPUT SWITCHING	UNABLE TO CONNECT PARTS-TO ASSEMBLY
	DAMAGED ANTENNA	FAULTY OUTPUT SWITCHING	WRONG COLOUR
	DAMAGED CRT OR VIEWFINDER/LCD DISPLAY	ELECTRIC SHOCK/STATIC DISCHARGE	BATTERY NOT OPERATING
	MISSING COMPONENT(S) OR ORNAMENTAL PARTS	FAULTY TELETEXT/CLOSE CAPTION/EPG RECEPTION	FAULTY MODE SWITCHING
	PRINTED MARKINGS ERASED/PEELED OFF	WRONG LANGUAGE/CHARACTER SET	FAULTY HIBERNATION MODE
	SET BURNING/EMITS SMOKE	ERROR CODE APPEARS IN DISPLAY	NO AUDIBLE WARNING SIGNAL
	EXTERNAL SURFACE DAMAGE (BUBBLING/PEELING/RUSTING/SCRATCHED)	SWITCH NOT OPERATING	FAULTY OPERATION OF PARENTAL LOCK/KEYLOCK FUNCTION
	WEAK/DAMAGED STAND	FAULTY MODE SWITCHING	FAULTY MODE SWITCHING
	DAMAGED SPEAKER	FAULTY STANDBY MODE	FAULTY HIBERNATION MODE
	SET GETS VERY HOT / PARTS MELTING	FAULTY OPERATION OF PARENTAL LOCK/KEYLOCK FUNCTION	FAULTY MODE SWITCHING
	FOREIGN SUBSTANCE ON/IN UNIT	FAULTY HIBERNATION MODE	FAULTY MODE SWITCHING
	BURNING MARKS	NO AUDIBLE WARNING SIGNAL	FAULTY MODE SWITCHING
	INTERNAL SURFACE DAMAGE (BUBBLING/PEELING/RUSTING/SCRATCHED)	FAULTY OPERATION OF PARENTAL LOCK/KEYLOCK FUNCTION	FAULTY MODE SWITCHING
	DAMAGED POWER CABLE	FAULTY MODE SWITCHING	FAULTY MODE SWITCHING
	DAMAGED ACCESSORY	FAULTY MODE SWITCHING	FAULTY MODE SWITCHING
	DISCOLOURATION	FAULTY MODE SWITCHING	FAULTY MODE SWITCHING
	OTHER 'PHYSICAL DAMAGE' PROBLEM	OTHER 'GENERAL FUNCTION' PROBLEM	OTHER 'GENERAL FUNCTION' PROBLEM
250	260	270	280
UNSTABLE RECEPTION/TRANSMISSION	TUNING PROBLEM	SPECIAL COMMUNICATION PROBLEM	SPECIAL RECEPTION PROBLEM
251	261	271	281
TUNING DRIFT	MANUAL TUNING PROBLEM	FAULTY DIALLING	FAULTY STEREO RECEPTION
252	262	272	282
FADING	AUTOMATIC TUNING PROBLEM	FAULTY CHANNEL SELECTION	FAULTY MAIN CHANNEL (A) FUNCTION
253	263	273	283
INTERMITTENT LINE/LINE BREAKING OFF	INCORRECT TUNING	FAULTY AUTO-ANSWER OPERATION	FAULTY SUB-CHANNEL (B) FUNCTION
254	264	274	284
NO OR UNSTABLE CONNECTION COMBINED WITH 'WEAK SIGNAL STRENGTH' INDICATION	TUNING MEMORY PROBLEM	FAULTY MESSAGE READ-OUT FUNCTION	FAULTY SUB RECEPTION
25X	26X	27X	28X
OTHER 'UNSTABLE RECEPTION/TRANSMISSION' PROBLEM	OTHER 'TUNING' PROBLEM	FAULTY AUTO-DIAL MEMORY	FAULTY RDS/PS/PC/SC/SDS OPERATION
		FAULTY SPEECH PROCESSING	FAULTY TELETEXT/CLOSE CAPTION/EPG RECEPTION
		NO RINGING TONE	FAULTY SATELLITE/RTTY RECEPTION
		LOUD/WEAK RINGING TONE	FAULTY FAX OPERATION
		MODEM STUCK OFF HOOK	MODEM NOT RECOGNIZED BY SYSTEM
		FAX DOES NOT WORK PROPERLY	MODEM CAUSES PROBLEM WITH PHONE
		MODEM CAUSES PROBLEM WITH PHONE	FAULTY CALL CHARGE DISPLAY
		NO MODEM DIAL TONE	FAULTY HANDS-FREE OPERATION
		OTHER 'SPECIAL COMMUNICATION' PROBLEM	SET LOCKED
			OTHER 'SPECIAL RECEPTION' PROBLEM
350	360	370	380
UNSTABLE PICTURE	POOR PICTURE RECORDING	SPECIAL PICTURE FUNCTION PROBLEM	PICTURE DISPLAY/PICKUP PROBLEM
351	361	371	381
SYNC PROBLEM	NO PICTURE RECORDING	EDITING PROBLEM	BURN MARK ON DISPLAY/PICKUP
352	362	372	382
PICTURE PUMPING	NO ERASURE PROTECTION FOR VIDEO	FAULTY FADING WIPER OPERATION	SCRATCH ON DISPLAY/PICKUP
353	363	373	383
PICTURE JITTER	PREVIOUS VIDEO RECORDING NOT BEING ERASED	FAULTY NEGATIVE/POSITIVE SWITCHING FUNCTION	DUST/DIRT ON DISPLAY/PICKUP
354	364	374	384
PICTURE SHAKING (HORIZONTAL OR VERTICAL)	UNWANTED ERASURE OF PICTURE	FAULTY SUPERIMPOSE/TELOP OPERATION	PHOSPHOR/PIXEL MISSING ON DISPLAY/PICKUP
355	365	375	385
FLICKERING PICTURE	NO CAMERA RECORDING	FAULTY PICTURE TRANSMISSION	BRIGHT POINT(S) IN PHOSPHOR/PIXEL LINES ACROSS/DOWN IMAGE
356	366	376	386
FLASHING PICTURE	ONLY ONE FIELD PER FRAME BEING RECORDED	FAULTY DIGITAL SHUTTER FUNCTION	OUT OF SPECS PIXEL DEFAULTS
357	367	377	387
CYCLIC PICTURE MUTING	RECORDS ONLY A FEW PICTURES	FAULTY GENLOCK FUNCTION	BACKGROUND BURN IN
358	368	378	388
HEAD IMPACT ERROR CAUSING UNSTABLE PICTURE	OTHER 'PICTURE RECORDING' PROBLEM	FAULTY FLASH-STROBE FUNCTION	OTHER 'PICTURE DISPLAY/PICKUP' PROBLEM
359	369	379	389
VCR SKEW-SHIFT ERROR		FAULTY DIGITAL PICTURE/ZOOMING FUNCTION	
35A	36A	37A	38A
FROZEN PICTURE		FAULTY AUTO-EDIT FUNCTION	
35B	36B	37B	38B
JUMPING/REPEATING PICTURE		FAULTY PICTURE STABILIZER FUNCTION	
35X	36X	37X	38X
OTHER 'UNSTABLE PICTURE' PROBLEM		FAULTY PICTURE CAPTURE FUNCTION	
		FAULTY SUBSTITUTION FUNCTION	
		FAULTY VARIABLE SPEED PLAYBACK	
		FAULTY VIEW- MULTI-ANGLE SWITCHING	
		FAULTY ASPECT RATIO SWITCHING	
		THUMBNAIL- OR INDEX PICTURE PROBLEM	
		NO BLANKING SCREEN	
		OTHER 'SPECIAL PICTURE FUNCTION' PROBLEM	

## SERVICE-MODE (EN)

It is necessary to enter the Service Mode in order to carry out alignment of the TV set. Most adjustments can be made with the RCU, except the Focus and Screen voltages.





### 1. Service Mode Access

- 1.1 With the RCU, switch the TV set into the "Standby" mode.
- 1.2 Switch "Off" the TV set by mains supply switch (wait until LED is dark).
- 1.3 Whilst pressing the "Magenta (text)" button on the RCU switch "On" the TV set using the mains switch.  
Continue to press the "Magenta (text)" button until the Service-setup Sub-menu appears.

ET1 ID : S2.3	(1)
INIT </>	(2)

### 2. Service Menu



#### 2.1 Navigation

- Press the  /  buttons to select the menu line.
- Press the  /  buttons to make adjustments or selection of a menu item.



#### 2.2 Service-Menu lines

**Set-up lines** (INIT,KEY,LOCK,LIMIT) -  
**Video lines** (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).  
**Geometry lines** (VSH, SC, VA, VS, HSH)  
**IF/SET-UP lines** (OIF,SOC)

#### 2.3 Activation of a line :

The first line (1) is continuously displayed. Sequential selection of the others lines in the Service Menu is possible by pressing the  /  buttons on the RCU.

### 3. Alignment and storing new function value

- 3.1 The current value of the selected function is displayed in a hexadecimal form to the right of the function name. This value is adjusted by means of the RCU  /  buttons.
- 3.2 The values will be stored in the non-volatile memory when leaving the service menu or switching the TV into standby mode.

### 4. Temporary exit from Service Mode

- 4.1 To temporary leave the Service Mode, press the "Exit" button on the RCU. To access the everyday menus, press the "Menu" button on the RCU.
- 4.2 To return to the Service Menu, press the "Magenta" button on the RCU

### 5. Leaving the Service Mode

- 5.1 To EXIT the Service Menu either press, the "Standby" button on the RCU or switch "Off" the mains supply to the TV.

## MODE SERVICE (FR)

Le mode service sert au réglage de l'appareil. Toutes les opérations de réglage s'effectuent à l'aide de la télécommande (sauf les réglages de Focus et de tension de grille-écran).





### 1. Accès au mode service

- 1.1 Commuter le téléviseur en position de veille avec la télécommande.
- 1.2 Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- 1.3 Maintenir la touche "Magenta (text)" enfoncée et mettre simultanément le téléviseur en marche avec l'interrupteur secteur.  
Ne pas relâcher la touche "Magenta (text)" jusqu'à apparition du menu

ET1 ID : S2.3	(1)
INIT	(2)

### 2. Menu Service



#### 2.1 Déplacement

- Appuyer sur la touche  /  pour sélectionner une ligne de menu.
- Appuyer sur la touche  /  pour un réglage ou une sélection d'une option.

#### 2.2 Lignes de Menus du mode service



**Set-up lines** (INIT,KEY,LOCK,LIMIT) -  
**Video lines** (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).  
**Geometry lines** (VSH, SC, VA, VS, HSH)  
**IF/SET-UP lines** (OIF,SOC)

#### 2.3 Sélection d'une ligne:

La première ligne (1) du menu est toujours affichée.  
De courtes pressions sur la touche " / 

" sélectionnent séquentiellement la ligne (2).

### 3. Réglage des fonctions sélectionnées; mémorisation

- 3.1 La valeur momentanée de la fonction sélectionnée est indiquée sous forme hexadécimale à droite, à côté de la position à régler et peut être modifiée avec la télécommande par la touche  / .
- 3.2 La valeur de réglage est mémorisée dans la mémoire non volatile en sortie de mode service ou en mettant le TV en position de veille.

### 4. Sortie temporaire du mode service

- 4.1 Utiliser la touche "Exit" de la télécommande.  
Le menu utilisateur peut-être accessible via la touche "Menu".
- 4.2 Pour entrer à nouveau dans le Menu Setup utiliser la touche magenta.

### 5. Sortie du mode service

- 5.1 Pour sortir du mode service, commuter le téléviseur en position de veille ou le mettre hors service par l'interrupteur secteur.

## SERVICE-MODE (DE)

Der Service-Mode wird für den Geräteabgleich benötigt. Alle Einstellungen erfolgen mit der Fernbedienung (bis auf Fokuseinstellung und Schirmgitterspannung).





### 1.Service-Mode einschalten

- 1.1 Mit der Fernbedienung das Fernsehgerät in Stand-by schalten.
- 1.2 Das Gerät mit dem Netzschalter ausschalten (warten bis LED dunkel ist)
- 1.3 Während Sie die margentafarbene Taste (text) auf der Fernbedienung gedrückt halten, schalten Sie das Gerät mit dem Netzschalter ein. Halten Sie die margentafarbene Taste solange gedrückt bis das Service Setup Sub-Menü erscheint.

ET1 ID : S2.3	(1)
INIT	(2)

### 2. Service Menü

#### 2.1 Navigation

- Drücken Sie die Tasten  /  zum Auswählen der Menüzeile.
- Drücken Sie die  /  -Tasten um eine Menüfunktion anzuwählen oder abzugleichen.



#### 2.2 Service-Menü Zeilen

**Set-up lines** (INIT,KEY,LOCK,LIMIT) -  
**Video lines** (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).  
**Geometry lines** (VSH, SC, VA, VS, HSH)  
**IF/SET-UP lines** (OIF,SOC)

#### 2.3 Aktivierung einer Menüzeile:

Die erste Zeile (1) wird ständig angezeigt. Die Anwahl der Zeilen (2) im Service-Menü ist durch Drücken der  /  -Tasten möglich.

### 3. Abgleich der gewählten Funktion und Speichern

- 3.1 Der momentane Wert der gewählten Funktion wird hexadezimal rechts neben der abzugleichenden Position angegeben und kann mit der Taste  /  auf der Fernbedienung verändert werden.
- 3.2 Die Werte werden nach dem Abschalten des Gerätes in Standby oder nach dem Verlassen des Service-Menüs im nichtflüchtigen Speicher (EEPROM) abgelegt.

### 4. Vorübergehendes verlassen des Service-Mode

- 4.1 Auf der Fernbedienung Exit drücken.  
Mit der Tasten Menü gelangen Sie zum Menü-Übersicht.
- 4.2 Durch Drücken der margentafarbenen Taste gelangen Sie in das Service Setup Sub-Menü.

### 5. Service-Mode verlassen

- 5.1 Zum Verlassen des Service-Mode das Gerät in Stand By schalten oder mit dem Netzschalter ausschalten.

## MODO SERVICIO (ES)





Se necesita el MODO SERVICIO para ajustar el aparato. Todos los ajustes se hacen con el mando a distancia (a excepción de la tensión del sistema, los ajustes del foco y las tensiones de la rejilla de pantalla).

### 1. Ajustar el Modo Servicio

- 1.1 Con el mando a distancia conectar a STANDBY el televisor.
- 1.2 Desconectar el aparato con el interruptor de la red (esperar hasta que el LED se apague).
- 1.3 Mientras mantiene pulsado el botón "Magenta (texto)" de la UCR, pulse el interruptor general de red para encender el televisor.  
Mantenga pulsado el botón "Magenta (texto)" hasta que aparezca el submenú de la configuración del servicio.

ET1 ID : S2.3	(1)
INIT	(2)

### 2. Menú Servicio.

- 2.1 Desplazamiento
  - Pulse el botón  /  para seleccionar la línea del menú.
  - Pulse el botón  /  para ajustar o seleccionar una opción del menú.

## SERVICE-MODE (IT)

Il Service-Mode è necessario per l'allineamento dell'apparecchio. Tutte le regolazioni si effettuano con il telecomando. (tranne le regolazioni del fuoco e le tensioni della griglia schermo).





### 1. Attivazione del Service-Mode

- 1.1 Commutare il televisore in stand-by con il telecomando.
- 1.2 Spegner l'apparecchio con l'interruttore di rete (attendere finché il LED è spento)
- 1.3 Mentre tenete premuto il pulsante "Magenta (testo)" del RCU, accendete il televisore utilizzando l'interruttore di rete. Continuate a premere il pulsante "Magenta (testo)" del RCU fino all'apparizione del Service Setup Sub Menu

ET1 ID : S2.3	(1)
INIT	(2)

### 2. Service Menu



#### 2.1 Navigazione

- Premere i tasti  /  per selezionare la linea del menu
- Premere i tasti  /  per la regolazione o la selezionz di un elemento del menu



#### 2.2 Linee Service Menu

**Set-up lines** (INIT,KEY,LOCK,LIMIT) -  
**Video lines** (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).  
**Geometry lines** (VSH, SC, VA, VS, HSH)  
**IF/SET-UP lines** (OIF,SOC)

#### 2.3 Attivazione di una linea :

La prima linea (1) è continuamente visualizzata. La selezione delle linee successive (2) è possibile in service menu premendo i tasi  / .

### 3. Taratura della funzione scelta e memorizzazione

- 3.1 Il valore momentaneo della funzione scelta viene indicato in formato esadecimale a destra, accanto alla posizione da allineare e può essere cambiato con il pulsante  /  del telecomando.
- 3.2 I valori verranno memorizzati nella memoria num quando verrà lasciato il menù service mode o commutando il TV in modo standby.

### 4. Uscita temporanea dal Service Mode



- 4.1 Premere Exit sul telecomando.  
Al menu di uso quotidiano si accede attraverso il pulsante Menu.
- 4.2 Il Service Setup Sub Menu è accessibile attraverso il tasto "Magenta".

### 5. Disattivazione del Service-Mode



- 5.1 Per disattivare il Service Mode, commutare l'apparecchio in stand-by o spegnerlo con l'interruttore di rete.

**Set-up lines** (INIT,KEY,LOCK,LIMIT) -  
**Video lines** (VG2, AGC, BKS, OS-B, PKWS, WPBS, WPGS, WPRS, BLOGS, BLORS, YD, CL).  
**Geometry lines** (VSH, SC, VA, VS, HSH)  
**IF/SET-UP lines** (OIF,SOC)

#### 2.3 Activación de una línea :

La primera línea (1) se muestra siempre en la pantalla. La selección secuencial de las líneas (2), es posible pulsando las teclas  / .

### 3. Ajuste de la función elegida y almacenamiento

- 3.1 El valor momentáneo de la función elegida es indicado de modo hexadecimal a la derecha, al lado de la posición a ajustar, y puede cambiarse con la tecla  o bien  en el mando a distancia.
- 3.2 Los valores serán memorizados en la EEPROM al salir del menú del Modo Servicio o pasando el TV a modo standby.

### 4. Salida temporal del Modo Servicio

- 4.1 Pulse Salir en el mando a distancia.  
Con el botón Menu puede acceder al menú de uso cotidiano.
- 4.2 Puede acceder al submenú de configuración del servicio mediante el botón "Magenta".

### 5. Salir del Modo Servicio

- 5.1 Conmute el aparato a STANDBY a fin de salir del MODO SERVICIO o desconectar con el interruptor de la red.